SDMS Document
93211

PRP CASES FOR THE LOWER PASSAIC RIVER STUDY AREA

PRP DATA EXTRACTION FORMS AND EVIDENCE CONCERNING:

FISKE BROTHERS REFINING CO.

PREPARED FOR:

LOWER PASSAIC RIVER STUDY AREA
COOPERATING PARTIES GROUP

SUBMITTED TO:
USEPA REGION II

DECEMBER 27, 2005

932110001

Fiske Brothers Refining Co.

932110002

PRP CASES
FOR THE
LOWER PASSAIC RIVER STUDY AREA

FISKE BROTHERS REFINING CO.

INDEX OF EVIDENCE

Tab No.	Year	Day and Month	Description
1	1995-2005		NJDEP Waste Manifest Report
2	2002	3-Oct	Renewal Authorization to Discharge Stormwater under NJPDES General Permit NJ0088315
3	1999	10-Dec	Request for Authorization Form (RFA)
4	2000	5-Jan	Authorization to Discharge Stormwater under NJPDES General Permit No. NJ0088315
5	1999	19-Nov	Letter from NJDEP to Fiske Brothers regarding failure to submit a Discharge to Surface Water permit application
6	2000	28-Jun	Stormwater Pollution Prevention Plan (SPPP) Certification
7	1978	September	City of Newark, New Jersey Feasibility Study: Pollution Abatement Program
8	2005	7-Dec	D&B Report on Fiske Brothers Refining Co.
9	2005	7-Dec	New Jersey Trade and Manufacturer's Catalogs showing Lubriplate as a division of Fiske Brothers from 1950-1960
10	2003	14-Oct	World Wide Web article, "Success Stories: Fiske Brothers Refining Co."
11	Undated		Lubriplate Lubrication Date Book
12	Various		MSDSs for Fiske Brothers Products
13	1973		Annual Report to the Passaic Valley Sewerage Commision

NEW JERSEY DEPARTMENT OF ENVIRONMENTAL PROTECTION
DIVISION OF HAZARDOUS WASTE MANAGEMENT

WASTE MANIFESTS FROM 01/01/95 TO 05/23/05
FROM GENERATOR NJD002153070 TO SPECIFIED TSDF'S

GENERATOR	TSDF	MANIFEST	DATE SHIPPED	WASTE CODE	WASTE NAME	QUANTITY
FISKE BROTHERS REFINING CO. 129 LOCKWOOD ST. NEWARK , NJ NJD002153070	CYCLE CHEM INC 217 S FIRST ST ELIZABETH , NJ NJD002200046	NJA3083395	01/19/00	D002	CHARACTERISTIC OF CORROSIVITY	2000 P
				F003	NON HAL SOLV & STLBTM	60 G
		NJA3083400	01/19/00	D002	CHARACTERISTIC OF CORROSIVITY	110 G
				D001	CHARACTERISTIC OF IGNITABILITY	55 G

Div of Solid and Haz
FJK waste permits

Fiske Brothers

932110005

FJK000001

NEW JERSEY DEPARTMENT OF ENVIRONMENTAL PROTECTION
DIVISION OF HAZARDOUS WASTE MANAGEMENT

WASTE MANIFESTS FROM 01/01/80 TO 12/31/94
FROM GENERATOR NJD002153070 TO SPECIFIED TSDF'S

GENERATOR	TSDF	MANIFEST	DATE SHIPPED	WASTE CODE	WASTE NAME	QUANTITY
FISKE BROTHERS REFINING CO. 129 LOCKWOOD ST. NEWARK , NJ NJD002153070	CITY DISPOSAL/ENVIRONMENTAL 1550 HARPER DETROIT , MI NJC876005257	MI01693100	08/14/90	X725	OIL SPILL CLEANUP MATERIAL	57450 P
		MI01703727	09/18/90	X725	OIL SPILL CLEANUP MATERIAL	11500 P

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State of New Jersey

James E. McGreevey
Governor

Department of Environmental Protection

Bradley M. Campbell
Commissioner

Bureau of Nonpoint Pollution Control
Division of Water Quality
P.O. Box 029 Trenton, NJ 08625-0029
Phone : 609-633-7021, 292-0407
Fax: 609-984-2147

10/02/2002

William Chappell
FISKE BROTHERS REFINING CO
129 LOCKWOOD ST

Newark, NJ 07105

Fiske Brothers
Bureau of Nonpoint Pollution Control

Re: 5G2 -General Permit Stormwater Basic **NJ0088315**
NJPDES: NJG0135992 PI ID #: 50467
FISKE BROTHERS REFINING CO
Newark, Essex

Dear William Chappell:

Your facility is currently authorized to discharge stormwater under General Permit NJPDES No. NJ0088315. The version of the general permit under which you previously were authorized has expired. However, this permit has been renewed until May 31, 2007. Please find enclosed your Renewal Authorization to Discharge Stormwater under NJPDES General Permit **NJ0088315** and a copy of that permit. All co-permittees will receive original Authorizations. One of these Authorization forms is requested to be LOCATED at the regulated facility at all times and be AVAILABLE for inspection by any authorized representative of the New Jersey Department of Environmental Protection. If you have designated an agent, it is your responsibility to notify your agent about this General Permit Authorization and its requirements.

Enclosed is the final General Permit NJ0088315. Please be advised that the renewed General Permit requires that all stormwater associated with industrial activities, including that discharged to groundwater, must meet the Best Management Practice of no exposure. You were advised of this new condition in the draft permit information you received as part of the permit renewal process. Please submit your certification, as described below, prior to the required deadline.

Also enclosed is an *ATTACHMENT D Annual Recertification* that must be submitted to the Bureau each year. You are required to annually review your facility and submit a certification attesting that the facility meets all the requirements of the permit. This form will be due in the calendar quarter in which the month of Attachment D – SPPP *Initial Implementation and Inspection Certification* falls. The due date will be a three month quarter as assigned on your authorization page (see "Annual Recertification Due" on your Authorization page).

Copies of the revised SPPP Guidance Manual and other forms including the *Annual Recertification Attachment D*, will available at the Department's web site: http://www.state.nj.us/dep/dwq/stormw.htm. If you do not have access to the web site please contact the Bureau of Nonpoint Pollution Control at the above address for a copy.

Should any information about your facility, i.e., mailing address, contact person, etc. change, please contact the Bureau for a Administrative Update Form. If your facility is sold, closing or moving its location please write the Bureau for instructions.

The Department appreciates your efforts toward accomplishing the goal of providing cleaner water for our State and looks forward to working together with you in the future. If you have any questions please contact the Bureau.

Sincerely,

Barry Chalofsky, P.P., Chief
Bureau of Nonpoint Pollution Control

Enclosures: (2)
Renewed Authorization to Discharge (ATD)
NJPDES General Permit No. **NJ0088315**

C: (w/ATD Form): NJDEP Water Compliance and Enforcement Region Office
Facility Owner (if applicable)
Debbie Esposti, BPM

New Jersey Department of Environmental Protection
Bureau of Nonpoint Pollution Control
Division of Water Quality
PO Box 029
Trenton, NJ 08625-0029
Phone: (609) 633-7021
Fax: (609) 984-2147

RENEWAL OF AUTHORIZATION TO DISCHARGE
5G2 -General Permit Stormwater Basic

Facility Name: FISKE BROTHERS REFINING CO

PI ID #: 50467

Facility Address:
129 LOCKWOOD ST
NEWARK, NJ 07105

NJPDES #: NJG0135992

SIC Code: 2992

Annual Recertification Due: Jan - Mar

Type of Activity: Stormwater Discharge General Permit Authorization Renewal

Owner:
FISKE BROTHERS REFINING CO
129 LOCKWOOD ST
NEWARK, NJ 07105

Operating Entity:
FISKE BROTHERS REFINING CO
129 LOCKWOOD ST
NEWARK, NJ 07105

Issuance Date:	Effective Date:	Expiration Date:
10/03/2002	06/01/2002	05/31/2007

Your Request for Authorization under NJPDES General Permit No. NJ0088315 has been approved by the New Jersey Department of Environmental Protection.

Date: 10/03/2002

Barry Chalofsky, P.P., Chief
Bureau of Nonpoint Pollution Control
Division of Water Quality
New Jersey Department of Environmental Protection

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New Jersey Department of Environmental Protection
Bureau of Nonpoint Pollution Control
PO Box 029
Trenton, N.J. 08625-0029

ATTACHMENT "D"

Stormwater Pollution Prevention Plan (SPPP)

Initial Implementation and Inspection Certification

Basic Industrial General Permit No. NJ0088315

(N.J.A.C. 7:14A-11 Appendix A)

RECEIVED JUL 12 2001 NJDEP DIVISION OF WATER QUALITY BUREAU OF NONPOINT POLLUTION CONTROL

RECEIVED JUL 12 2001 NJDEP DIVISION OF WATER QUALITY BUREAU OF NONPOINT POLLUTION CONTROL

SWG: A- 021737 # 50467 NJPDES Permit # NJ0135992

SUBMIT THIS FORM ONCE, AFTER SPPP IS IMPLEMENTED. FOR EXISTING FACILITIES, THE SPPP MUST BE IMPLEMENTED WITHIN 18 MONTHS OF AUTHORIZATION UNLESS THE DEPARTMENT GRANTS AN EXTENSION.

"I certify under penalty of law that this Stormwater Pollution Prevention Plan Implementation and Inspection Certification and all attached documents were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate this information. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering this information, the information in this Stormwater Pollution Prevention Plan Implementation and Inspection Certification and all attached documents is, to the best of my knowledge and belief, true, accurate and complete.

"I certify that the facility has been inspected to identify areas contributing to the stormwater discharge authorized under NJPDES permit No. NJ0088315 and to evaluate whether the stormwater pollution prevention plan (SPPP) prepared under that permit complies with part III.A. of that permit and is being properly implemented.

"I certify that the stormwater pollution prevention plan referred to in this Stormwater Pollution Prevention Plan Implementation and Inspection Certification has been and will continue to be fully implemented at this facility in accordance with the terms and conditions of part III of NJPDES Permit No. NJ0088315. I specifically certify that there is no exposure, during and after storm events, of industrial materials, machinery, waste products or other source materials located at the facility, to stormwater that is discharged to surface waters and regulated under that NJPDES permit (except for any incidents of non-compliance identified in the attached report). I also specifically certify that this facility does not generate and discharge, through storm sewers to surface waters, any domestic sewage, non-contact cooling water, or process waste water (including leachate and contact cooling water) other than stormwater, unless that discharge is authorized by another NJPDES permit or identified in an application (o request for authorization) submitted for another NJPDES permit.

"I also certify that this facility is not in violation of any conditions of NJPDES Permit No. NJ0088315, including requirements in part III of that permit for preparation and implementation of a stormwater pollution prevention plan, except for any incidents of noncompliance (which are noted in the attached report). For any incidents of noncompliance identified in the annual inspection (or made known to me during the course of the past year), I have attached a report identifying these

N.J.D.E.P. Bureau of Nonpoint Pollution Control

ANNUAL REPORT

Worksheet #13
Completed by: William H. Chappell
Title: Chief Lubrication Engineer
Date: June 29, 2001

Instructions: Summarize each annual inspection. Indicate whether the facility was in compliance with the SPPP and the conditions of this permit. In the case of noncompliance the report shall identify measures taken to remedy any noncompliance. This report must be signed and dated and kept with SPPP for five years.

We have conducted an annual inspection evaluating all areas that discharge stormwater authorized by this permit, including:

- the removal or covering of source material;
- areas where good housekeeping practices are used;
- activities for preventive maintenance;
- visual inspections for sources of pollution;
- structures for diverting stormwater; and
- training for stormwater pollution prevention team members.

Our facility has maintained each of the BMPs outlined in the SPPP. We have made necessary repairs or maintenance as needed. We will pursue more training for stormwater pollution prevention awareness by seeking seminars concerning said stormwater pollution prevention and permitting. The annual inspection determined that the SPPP has been properly implemented, and has eliminated exposure of source material to stormwater, and that no additional measures are required. Therefore, Fiske Brothers Refining Co. is in compliance with the SPPP and the conditions of the Basic Industrial Stormwater General Permit (NJ0088315)

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William H. Chappell
Signature

6/29/01
Date

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DEC 13 1999 12/21/99

Bureau of Nonpoint Pollution Control

Division of Water Quality

New Jersey Department of Environmental Protection

FOR STATE USE ONLY		
SWGA #	A-021737	
NJPDES #	NJ0135992	
Date Rec'd	12-21-99	
Amount Rec'd	$ 500.00	
	YES	NO
Check Rec'd	✓	
A/A Rec'd	✓	
SPPP Rec'd		✓
Cert. Signed		
Staff	Gaddis	

Request for Authorization (RFA) Form

NJPDES Basic Industrial Stormwater General Permit No. NJ0088315

(N.J.A.C. 7:14A-11 Appendix A)

Stormwater Discharge Associated with Industrial Activity

0714

Please read and follow all the instructions carefully (see attached instructions). Any omissions may delay your permit authorization issuance. **Sign and Date** where indicated. **Print or Type** all information.

1. Facility Information

A. Facility Name Fiske Brothers Refining Company

B. Location (number and street) 129 Lockwood Street

C. City or Town Newark D. County Essex

E. USEPA ID # (if assigned) NJD-002153070

F. Mailing Address 129 Lockwood Street

G. City or Town Newark

H. State & Zip Code New Jersey 07105-4782

I. SIC Code & Short Title 2992 Petroleum Products-Lubricating Oils & Greases

J. Contact Person & Telephone Number William Chappell

K. Parent Company Fiske Bros. Refining Co. Telephone # (973) 589-9150

Mailing Address 129 Lockwood Street

City or Town Newark

State New Jersey Zip Code 07105-4782

2. Property Owner (land)

A. Name Fiske Brothers Refining Co.

B. Permanent Legal Address 129 Lockwood Street

C. City or Town Newark D. State & Zip Code NJ 07105

E. Taxpayer Identification # or Social Security # 22-0913895

F. Owner Status (circle) 1. government 2. commercial 3. religious 4. charitable 5. public school

G. Telephone Number (973) 589-9150

FJK000008

RFA Certification

Attachment "A"

Basic Industrial Stormwater General Permit
NJPDES General Permit No. NJ0088315

"I certify under penalty of law that this Request for Authorization and all attached documents were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate and complete. As far as I know, none of the stormwater discharges for which this Request for Authorization is submitted are excluded from authorization by part I.B of NJPDES Permit No. NJ0088315.

"I am aware that pursuant to the Water Pollution Control Act, N.J.S.A. 58:10A-1 et seq., there are significant civil and criminal penalties for making a false statement, representation or certification in any application, record, or other document filed or required to be maintained under that Act, including fines and/or imprisonment."

WHO MUST SIGN?

FOR A CORPORATION: a "responsible corporate officer" or duly authorized representative. A "responsible corporate officer" is (i) a president, secretary, treasurer, or vice-president of the corporation in charge of a principal business function, or any other person who performs similar policy or decision-making functions for the corporation; or (ii) the manager of one or more manufacturing, production, or operating facilities employing more than 250 persons or having gross annual sales or expenditures exceeding $25 million (in second-quarter 1980 dollars), if authority to sign documents has been assigned or delegated to the manager in accordance with corporate procedures.

FOR A PARTNERSHIP OR SOLE PROPRIETORSHIP: a general partner or the proprietor, respectively, or duly authorized representative.

FOR A MUNICIPALITY, STATE, FEDERAL OR OTHER PUBLIC AGENCY: either a principal executive officer or ranking elected official, or duly authorized representative.

A "responsible corporate officer", general partner, proprietor, principal executive officer of a public agency, or ranking elected official may assign his or her signatory authority for this Certification to a duly authorized representative, which is a named person or generic position (e.g., plant manager, superintendent, plant engineer, operations manager, etc.) having overall responsibility for facility operation or the permittee's environmental matters, by submitting a letter to the Bureau of Permit Management stating said authority and naming the person or position.

Facility Name: Fiske Brothers Refining Company
(print)

(print, if applicable, name of corporation, partnership, or public agency submitting this certification)

(signature) — Richard T. McCluskey (print name)

President & CEO (title) — December 10, 1999 (date)

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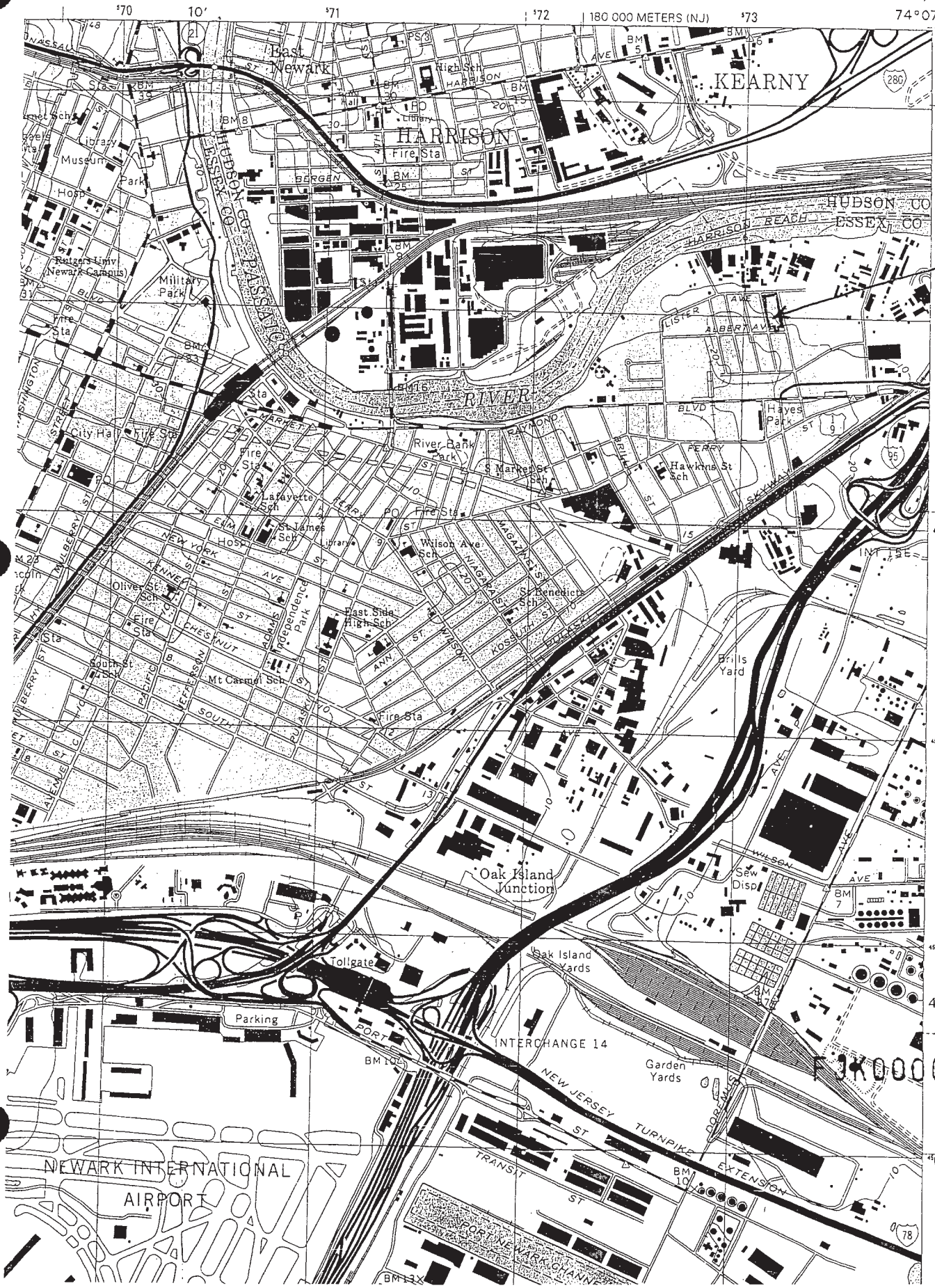
ELIZABETH QUADRANGLE
NEW JERSEY-NEW YORK
7.5-MINUTE SERIES (TOPOGRAPHIC)



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State of New Jersey

Christine Todd Whitman
Governor

Department of Environmental Protection

Robert C. Shinn, Jr.
Commissioner

Bureau of Nonpoint Pollution Control
401 East State Street
P.O. Box 029
Trenton, NJ 08625-0029
Tel. 609-633-7021 Fax: 609-984-2147

CERTIFIED MAIL
RETURN RECEIPT REQUESTED

To: FISKE BROTHERS REFINING COMPANY

1/5/00

Please find enclosed your Authorization to Discharge Stormwater under NJPDES General Permit N NJ0088315 and a copy of that permit. All co-permittees will receive original Authorizations. One of these Authorization forms is requested to be LOCATED at the regulated facility at all times and be AVAILABLE for inspection by any authorized representative of the New Jersey Department of Environmental Protection. If you have designated an agent, *it is your responsibility to notify your agent about this General Permit Authorization* and its requirements.
Enclosed are your Stormwater Pollution Prevention Plan (SPPP) Certifications (Attachments C and D) and your SPPP Guidance Manual. Below is a brief description of each:

The SPPP GUIDANCE MANUAL is a planning aid for use in developing your Stormwater Pollution Prevention Plan.

ATTACHMENT C (SPPP Preparation Certification) certifies that the Plan has been prepared in accordance with the permit. The permit specifies that this Certification must be signed and submitted to the Bureau of Nonpoint Pollution Control (Bureau) six (6) months from the date of this letter.

ATTACHMENT D (SPPP Initial Implementation and Inspection Certification) certifies that the Plan has been implemented and that you have inspected the facility for compliance with the Plan and the permit. The permit specifies that this Certification must be signed and submitted to the Bureau within eighteen (18) months from the date of this letter. (You will later receive ATTACHMENT D Annual Recertifications that must be submitted to the Bureau in subsequent years.)

Should any information about your facility, i.e., mailing address, contact person, etc. change, please contact the Bureau for a Standard Change Form. If your facility is sold, closing or moving it's location, please write the Bureau for instructions.

The Department appreciates your efforts toward accomplishing the goal of providing cleaner water for our State and looks forward to working together with you in the future. If you have any questions please contact the Bureau.

Sincerely,

Barry Chalofsky

Barry Chalofsky, P.P., Chief
Bureau of Nonpoint Pollution Control

Enclosures: (5)
Authorization to Discharge (ATD) Form
NJPDES General Permit No NJ0088315
Attachments C and D
SPPP Guidance Manual

c (w/ATD Form): NJDEP Water Compliance
and Enforcement Region Office
Facility Owner (if applicable)
BPM

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Recycled Paper

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New Jersey Department of Environmental Protection
Bureau of Nonpoint Pollution Control
Division of Water Quality
401 East State Street
P.O. Box 029
Trenton, NJ 08625-0029
Tel. 609-633-7021 or 292-0407

AUTHORIZATION TO DISCHARGE STORMWATER TO SURFACE WATER

Facility Name **FISKE BROTHERS REFINING COMPANY** SWG **A-021737**

NJ0135992

Facility Address **129 LOCKWOOD STREET**

NEWARK, NJ

SIC Code: **2992**

Type of Industrial Activity **LUBRICATING OILS AND GREA**

	Owner	Operator
Name:	**FISKE BROTHERS REFINING CO.**	**FISKE BROTHERS REFINING COMPANY**
	129 LOCKWOOD STREET	**129 LOCKWOOD STREET**
	NEWARK, NJ 07105	**NEWARK, NJ 07105**

EFFECTIVE DATE **1/5/00** EXPIRATION DATE: **1/31/02**

Your Request for Authorization under NJPDES General Permit N(**NJ0088315** has been approved by the New Jersey Department of Environmental Protection.

Barry Chalofsky, P.P., Chief
Bureau of Nonpoint Pollution Control
New Jersey Department of Environmental Protection

Date: **1/5/00**

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A-02737

NJ 0135992

State of New Jersey

Christine Todd Whitman
Governor

Department of Environmental Protection
Northern Bureau of Water Compliance and Enforcement
1259 Route 46, Building 2
Parsippany, New Jersey 07054-4191
Telephone (973) 299-7592 Fax (973) 299-7719

Robert C. Shinn, Jr.
Commissioner

IN 2/21/99

November 19, 1999

CERTIFIED MAIL
RETURN RECEIPT REQUESTED

RFA INE 12/19
CF RFA 12/20

Mr. William Chappell, Chief Lubricating Engineer
Fiske Brothers Refinery company
129 Lockwood St.
Newark, N.J. 07105

Re: Unpermitted Discharge to Surface Water (Passaic River)
Fiske Brothers Refinery Company
Newark/Essex County

Dear Mr. Chappell:

A representative of the New Jersey Department of Environmental Protection ("NJDEP" or "Department") conducted a New Jersey Pollution Discharge Elimination System (NJPDES) Compliance Evaluation and Assistance Inspection at the Fiske Brothers Refinery Company (Fiske) industrial facility at 129 Lockwood Street, Newark, New Jersey 07105 on November 15 and 16, 1999.

A Notice of Violation (NOV) was issued to Fiske for the following violation:

The facility has not submitted a Discharge to Surface Water (DSW) permit application to the Bureau of Nonpoint Pollution Control (BNPC) as required under the Industrial General Stormwater Permitting Program.

You are required to take corrective measures. Fiske's industrial activity is in the proximity of storm drains discharging to the Passaic River. Such a discharge is governed by the New Jersey Water Pollution Control Act N.J.S.A.58:10A-1 *et seq.*, and the regulations promulgated thereunder N.J.A.C.7:14A-11 *et seq.* Your facility, with SIC Code 2992, should be regulated under category (ii) of the General Stormwater Permit.

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You are therefore required to submit, an application for the General Stormwater Permit pursuant to N.J.A.C.7:14A-11.5(b) as defined under N.J.A.C.7:14A-1.2 to the Bureau of Non-Point Pollution Control, 401 East State Street, Trenton, New Jersey 08625, with a copy sent to this Bureau, within thirty (30) calendar days of receipt of this letter. Permit application information and forms may be obtained by contacting the Bureau of Nonpoint Pollution Control at (609) 633-7021.

Please direct any questions on this correspondence to this writer by phone at (973) 299-7592, or by letter through this Bureau. Thank you for your continued cooperation in the prevention and control of water pollution in New Jersey.

Very truly yours,

Theophilus Ashie
Principal Environmental Specialist
Northern Bureau of
Water Compliance and Enforcement

E29:G26

Enclosure

c: Janet Jessel, Supervisor, BNPC
City of Newark Health Department
Joseph M. Mikulka, Bureau Chief, NBWCE

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New Jersey Department of Environmental Protection
Bureau of Nonpoint Pollution Control
PO Box 029
Trenton, N.J. 08625-0029

ATTACHMENT "C"

Stormwater Pollution Prevention Plan (SPPP) Certification

Basic Industrial General Permit No. NJ0088315

(N.J.A.C. 7:14A-11 Appendix A)

SWG: A- 021737 NJPDES Permit # NJ 0135992

THIS CERTIFICATION FORM IS TO BE SUBMITTED AFTER YOU HAVE PREPARED YOUR FACILITY'S SPPP. FOR EXISTING FACILITIES, THE SPPP MUST BE PREPARED WITHIN 6 MONTHS OF THE GENERAL PERMIT AUTHORIZATION. THIS ATTACHMENT "C" CERTIFIES THAT THE SPPP HAS BEEN PREPARED IN ACCORDANCE WITH THE GENERAL PERMIT CONDITIONS.

"I certify under penalty of law that I have signed a stormwater pollution prevention plan (SPPP), and that if this plan is fully implemented, there will be no exposure, during and after storm events, of industrial materials, machinery, waste products or other source materials located at the facility, to stormwater that is discharged to surface waters and regulated under NJPDES Permit No. NJ0088315 (except for unintentional and temporary exposure because of an event beyond the reasonable control of the permittee). I further certify that if any part of this stormwater pollution prevention plan requires the consent of the owner(s) of or another operating entity for the facility, that consent has been obtained.

"I further certify that this Stormwater Pollution Prevention Plan Preparation Certification, all attached documents, and stormwater pollution prevention plan were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate this information. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering this information, the information in this Stormwater Pollution Prevention Plan Preparation Certification, all attached documents, and stormwater pollution prevention plan is, to the best of my knowledge and belief, true, accurate and complete.

"I certify that the stormwater pollution prevention plan referred to in this Stormwater Pollution Prevention Plan Preparation Certification has been signed and is being retained at the facility in accordance with part III.A of NJPDES Permit No. NJ0088315, and that the permittee intends that this stormwater pollution prevention plan will be fully implemented at the facility in accordance with the terms and conditions of that permit. I am aware that pursuant to the Water Pollution Control Act, N.J.S.A. 58:10A-1 et seq., there are significant civil and criminal penalties for making a false statement, representation, or certification in any application, record, or other document filed or required to be maintained under that Act, including fines and/or imprisonment."

Any changes to the facility data previously submitted require a Standard Change Form (SCF) to be submitted along with this Certification. This will facilitate file maintenance. Please contact the Bureau at (609) 633-7021 for copies of this form. Do not send the actual SPPP with this submission. The plan and a copy of this Certification are to remain on-site available for inspection.

WHO MUST SIGN?

FOR A CORPORATION: a "responsible corporate officer" or duly authorized representative. A "responsible corporate officer" is (i) a president, secretary, treasurer, or vice-president of the corporation in charge of a principal business function, or any other person who performs similar policy or decision-making functions for the corporation; or (ii) the manager of one or more manufacturing, production, or operating facilities employing more than 250 persons or having gross annual sales or expenditures exceeding $25 million (in second-quarter 1980 dollars), if authority to sign documents has been assigned or delegated to the manager in accordance with corporate procedures.

FOR A PARTNERSHIP OR SOLE PROPRIETORSHIP: a general partner or the proprietor, respectively, or duly authorized representative.

FOR A MUNICIPALITY, STATE, FEDERAL OR OTHER PUBLIC AGENCY: either a principal executive officer or ranking elected official, or duly authorized representative.

A "responsible corporate officer", general partner, proprietor, principal executive officer of a public agency, or ranking elected official may assign his or her signatory authority for this Certification to a duly authorized representative, which is a named person or generic position (e.g., plant manager, superintendent, plant engineer, operations manager, etc.) having overall responsibility for facility operation or the permittee's environmental matters, by submitting a letter to the Bureau of Nonpoint Pollution Control stating said authority and naming the person or position.

Whenever there are two or more permittees for the facility, all of those permittees shall jointly submit this Certification, unless permittees received authorization on different dates and this Certification is therefore due from them at different dates.

Facility Name: Fiske Brothers Refining Co. SWG: A - 021737

NJPDES # NJ 0135992

Fiske Brothers Refining Company
(print, if applicable, name of corporation, partnership, or public agency submitting this Certification)

(signature)	(date)	(print name)
Richard T. McCluskey	6/28/00	Richard T. McCluskey

If you have any questions regarding this Attachment C or any other stormwater related questions, please call a member of the Bureau of Nonpoint Pollution Control staff at (609) 633-7021.
Attachment C shall be submitted to the letterhead address on the front of this Certification.

ATTC-5/5/97

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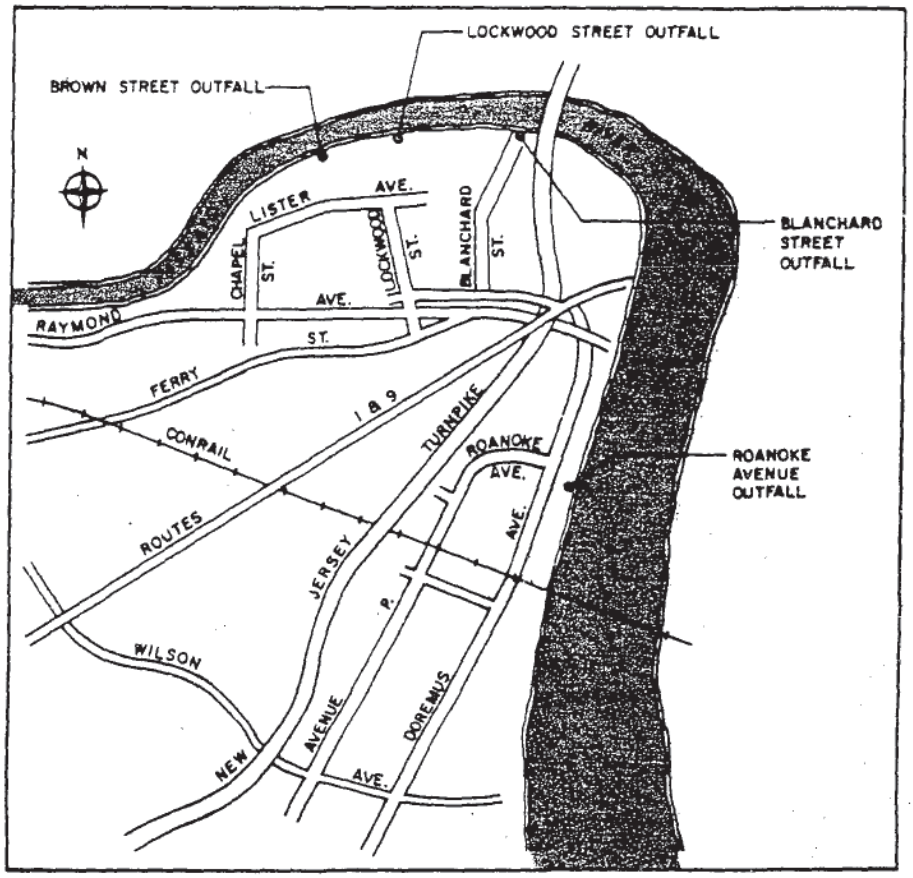
City of Newark, New Jersey

Feasibility Study

POLLUTION ABATEMENT PROGRAM



Clinton Bogert Associates
Consulting Engineers

September, 1978
Revised January, 1979

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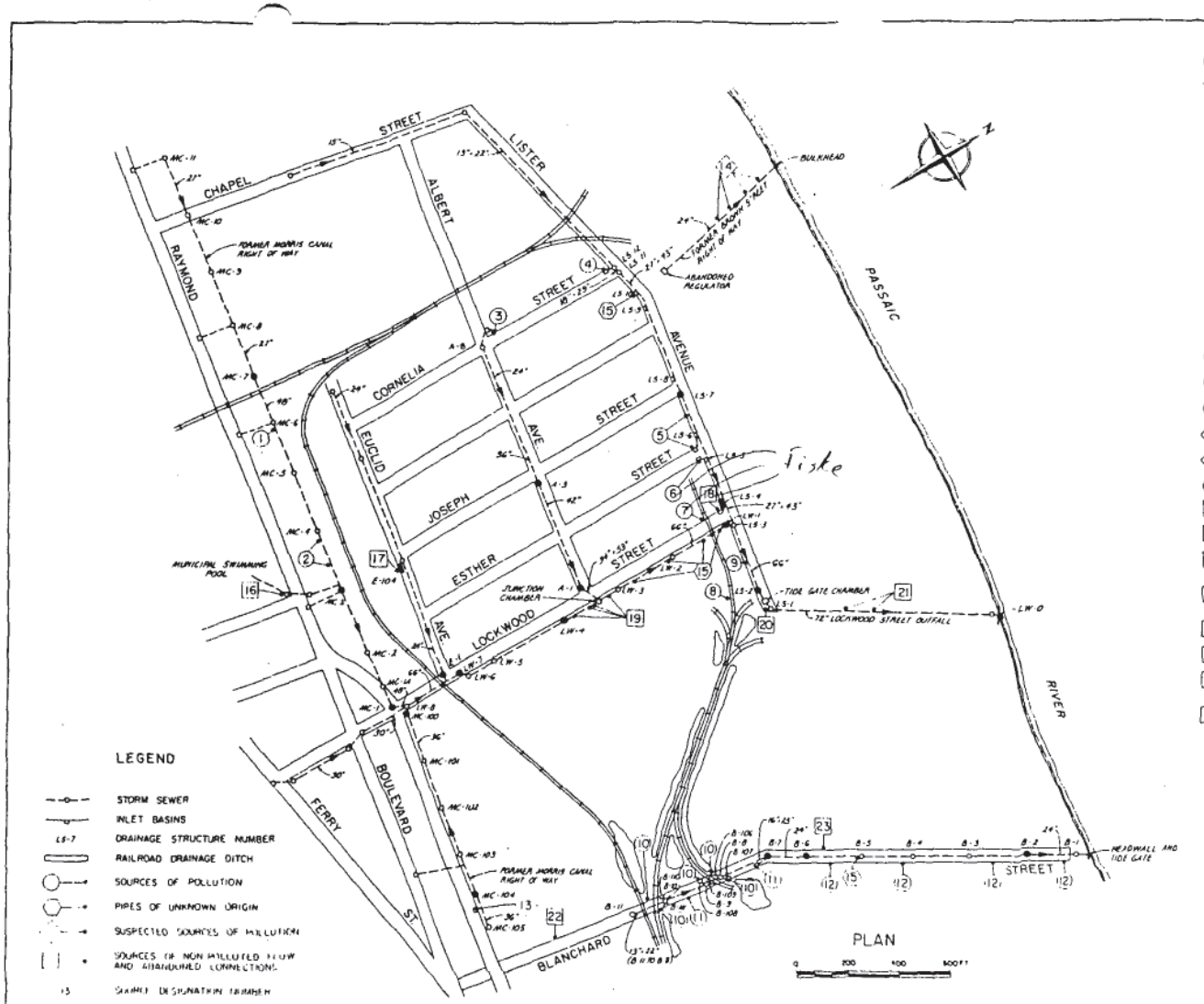

DESIGNATION NUMBER	SOURCE DESCRIPTION
1	INTERMITTENT DUMPING OF PAINT INTO INLET AT ASSOCIATED AUTO BODY AND TRUCKS INC.
2	CAR WASH DRAINS AT SUNOCO STATION CONNECTED TO STORM SEWER.
3	INTERMITTENT, LOW VOLUME DISCHARGE OF OIL AND WATER ENTERING INLET FROM CELLOMER CORP.
4	CONTINUOUS FLOW OF ORANGE VISCOUS CHEMICALS ENTERING INLET FROM CELLOMER CORP.
5	CONTINUOUS FLOW OF BLACK OILY CHEMICALS ENTERING INLETS FROM B-LINE TRUCKING COMPANY.
6	INTERMITTENT, LOW VOLUME DISCHARGE OF OIL AND WATER ENTERING INLET FROM FISKE BROTHERS REFINING COMPANY.
7	INTERMITTENT DISCHARGE OF BLACK OILY CHEMICALS ENTERING INLET FROM FISKE BROTHERS REFINING COMPANY RAILROAD SIDING.
8	CHEMICAL SPILLAGE AT ATLAS REFINERY INC. RAILROAD SIDING CONTAMINATING GROUND AND ENTERING RAILROAD DRAINAGE DITCHES DURING WET WEATHER.
9	RAILROAD DRAINS AND OIL SEPARATOR AT ATLAS REFINERY INC. CONNECTED TO STORM SEWER.
10	INTERMITTENT FLOW OF WATER AND CHEMICALS ENTERING INLETS FROM RAILROAD DRAINAGE DITCHES.
11	FREQUENT OVERFLOW OF SEWAGE FROM SANITARY MANHOLES ENTERING INLETS.
12	OCCASIONAL OVERFLOW OF SEWAGE FROM SANITARY MANHOLES ENTERING INLETS.
13	CONTINUOUS DISCHARGE FROM NEWARK BOXBOARD COMPANY.
14	INLETS AND DRAINS AT SHERWIN WILLIAMS COMPANY CONNECTED TO STORM SEWER.
15	PIPES OF UNKNOWN ORIGIN.
16	CONTINUOUS FLOW FROM MUNICIPAL SWIMMING POOL (SEASONAL).
17	CONTINUOUS FLOW OF COOLING WATER ENTERING INLET FROM REDDAWAY MANUFACTURING COMPANY.
18	INTERMITTENT DISCHARGE OF COOLING WATER ENTERING INLET FROM FISKE BROTHERS REFINING COMPANY.
19	ROOF DRAIN CONNECTIONS FROM THE MESSINGER WAREHOUSE AND TRUCKING COMPANY AND ABANDONED INLET CONNECTION.
20	ABANDONED RAILROAD DRAIN CONNECTED TO MANHOLE LS-1
21	ROOF DRAIN CONNECTIONS FROM THE BENJAMIN MOORE COMPANY.
22	CONTINUOUS, LOW VOLUME DISCHARGE OF COOLING WATER ENTERING GUTTER FROM NEWARK BOXBOARD COMPANY.
23	INTERMITTENT DISCHARGE OF GROUNDWATER ENTERING GUTTER FROM SUMP PUMP AT FAIRMOUNT CHEMICAL COMPANY.

NEWARK POLLUTION ABATEMENT FEASIBILITY STUDY

SOURCES OF POLLUTION IN STORM SEWER SYSTEMS ON BLANCHARD, LOCKWOOD AND BROWN STREETS

CLINTON BOGERT ASSOCIATES
CONSULTING ENGINEERS

PLATE 2

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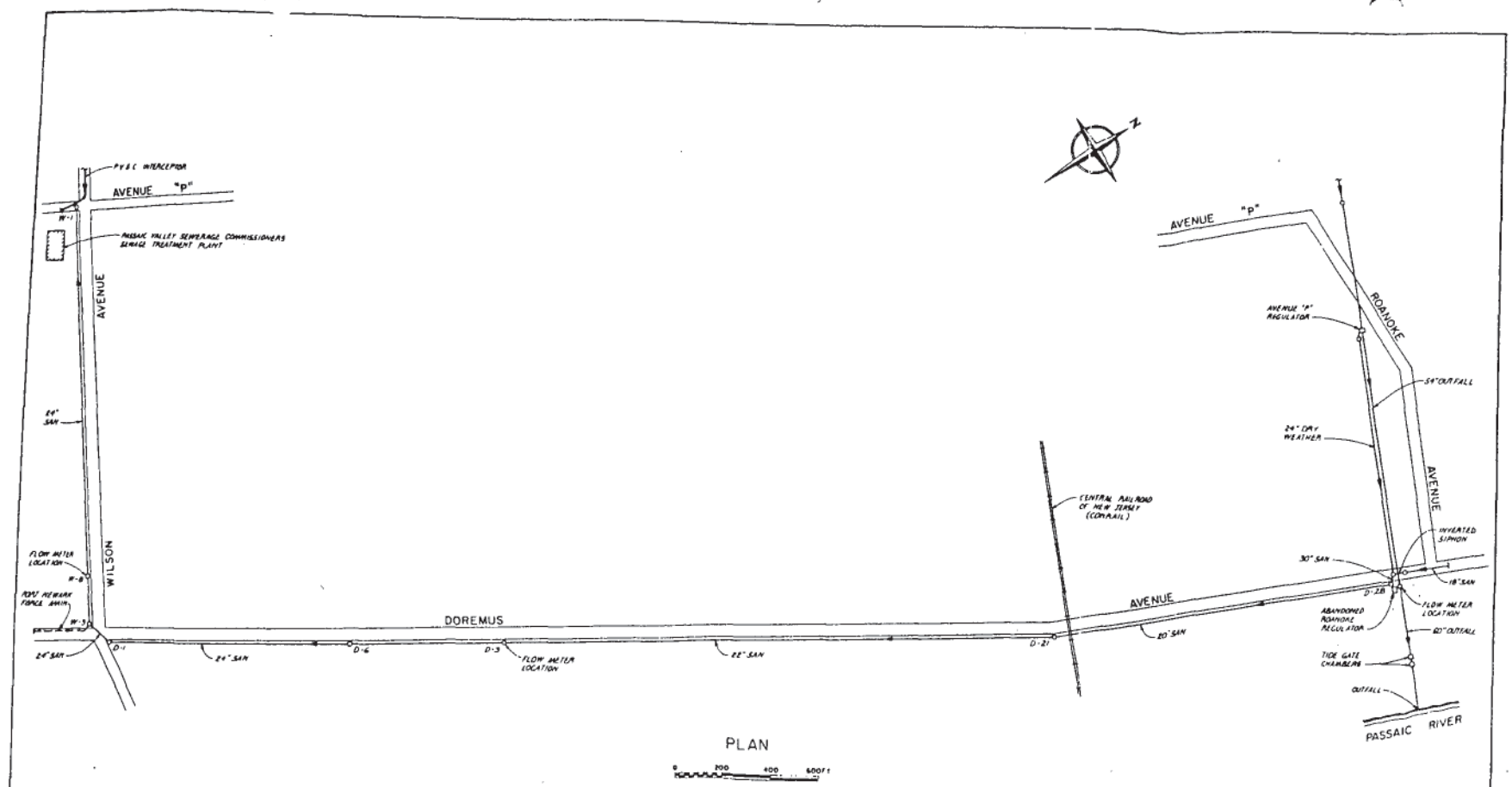

NEWARK POLLUTION ABATEMENT FEASIBILITY STUDY

SANITARY AND COMBINED SEWER CONFIGURATIONS ON ROANOKE, DOREMUS AND WILSON AVENUES

CLINTON BOGERT ASSOCIATES
CONSULTING ENGINEERS

PLATE 1

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January 24, 1979

Honorable Kenneth A. Gibson, Mayor
City of Newark
City Hall
920 Broad Street
Newark, New Jersey 07102

Re: Pollution Abatement

Dear Mayor Gibson:

In accordance with our contract dated February 15, 1978, submitted herewith is our report on the sources of pollution discharging to the lower Passaic River during dry weather from the Roanoke Avenue combined sewer system and the Blanchard, Lockwood, and Brown Street storm sewer systems. Each system is discussed in a separate section which contains:

(1) A description of the existing sewers.
(2) Findings of the physical inspection.
(3) Conclusions and recommendations applicable to that system.

Appropriate additional items are included as follows:

(1) For the Roanoke Avenue combined sewer system (Section III), a hydraulic analysis is presented. Significant conclusions are:

(a) all dry weather overflows may not be eliminated by rehabilitation of the existing system alone; but either flow routing, using storage available in the existing sewers, or increased interceptor capacity is required; and,

(b) a faulty regulator results in all sewage flows discharging untreated to the Passaic River.

(2) For the Blanchard Street storm sewer (Section IV), the results of dry weather flow sampling and gauging, smoke testing and T.V. inspection are presented. Significant conclusions are the need to:

(a) replace about 1,300 feet of existing 24" storm sewer which appears in danger of collapse,

(b) improve housekeeping around industrial railroad sidings, and,

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Honorable Kenneth A. Gibson, Mayor
City of Newark
City Hall
920 Broad Street
Newark, New Jersey 07102

CONSULTING ENGINEERS

We would be pleased to meet with you to review any matters contained herein. We wish to express our appreciation of the assistance given us by members of your staff, particularly Mr. Robert Benz, in carrying forward this work.

Very truly yours,

CLINTON BOGERT ASSOCIATES

Herbert L. Kaufman

Herbert L. Kaufman
P.E., N.J. Lic. No. 13647

HLK:mmb
Enclosure

Table of Contents

Page No.

Letter of Transmittal

I. Introduction..... 1

II. Scope of Work..... 3

III. Roanoke, Doremus, and Wilson Avenue Sewers..... 4
- A. Existing Sewers..... 4
- B. Physical Inspection Findings..... 5
  - 1. Avenue "P" Regulator and Roanoke Outfall Sewer..... 5
  - 2. Roanoke Avenue Sanitary Sewer..... 6
  - 3. Doremus Avenue Interceptor..... 6
  - 4. Wilson Avenue Interceptor..... 7
  - 5. Roanoke Avenue Regulator..... 7
- C. Hydraulic Analysis..... 8
  - 1. Flow Measurement Methods..... 8
  - 2. Observed Flow Rates..... 8
  - 3. Diversion of Roanoke Flow to PVSC Interceptor.....10
  - 4. Diversion Works.....14
- D. Conclusions and Recommendations.....17

IV. Blanchard Street.....20
- A. Physical Inspection Findings.....20
- B. Dry Weather Sampling and Flow Rates.....23
- C. Smoke Testing.....24
- D. Television Inspection.....25
- E. Conclusions and Recommendations.....26

V. Lockwood Street Outfall.....28
- A. Physical Inspection Findings.....28
  - 1. Lister Avenue Sewer.....28
  - 2. Morris Canal Sewers.....29
  - 3. Euclid Avenue Sewer.....29
  - 4. Albert Avenue Sewer.....30
  - 5. Lockwood Street Sewer.....30
  - 6. Lister Avenue Tide Gate.....30
  - 7. Lockwood Street Outfall.....31
- B. Dry Weather Flow Sampling and Flow Monitoring.....32
- C. Smoke Testing.....34
- D. Television Inspection.....35
- E. Conclusions and Recommendations.....38

(continued)

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Table of Contents
(continued)

Page No.

VI. Brown Street.....41
A. Configuration.....41
B. Physical Inspection Findings.....42
C. Dry Weather Effluent Sampling.....44
D. Conclusions and Recommendations.....45

VII. General Recommendations.....46
VIII. Appendices Following Text
A. Analytical Test Results
B. Letter From Robinson Pipe Cleaning Company

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ILLUSTRATIONS
(Following Appendices)

A. Plate 1 - Sanitary and Combined Sewer Configurations on Roanoke, Doremus and Wilson Avenues

B. Plate 2 - Sources of Pollution in Storm Sewer Systems on Blanchard, Lockwood and Brown Streets

C. Plate 3 - Diurnal Sewage Flow Patterns, Roanoke Avenue Outfall Sewer

D. Plate 4 - Diurnal Sewage Flow Patterns, Roanoke Avenue Outfall Sewer

E. Plate 5 - Diurnal Sewage Flow Patterns, Doremus Avenue Interceptor

F. Plate 6 - Diurnal Sewage Flow Patterns, Doremus Avenue Interceptor

G. Plate 7 - Diurnal Sewage Flow Patterns, Wilson Avenue Interceptor

H. Plate 8 - Diurnal Sewage Flow Patterns, Wilson Avenue Interceptor

I. Plate 9 - Flow Rates at the Lister Avenue Tide Gate Chamber

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IV. Blanchard Street

A. Physical Inspection Findings

Blanchard Street is served by separate storm and sanitary sewers. The 24-inch storm sewer (see Plate 2), constructed in 1917, discharges to the Passaic River. In 1970, the storm sewer was extended and the sanitary sewer was rebuilt. The sanitary sewer connects to a trunk sewer in Raymond Boulevard. The sanitary sewer is clogged by grease, tallow, paper and black oily waste. Several sanitary manholes were observed to surcharge and overflow into the street. These overflows usually occurred between 11:00 a.m. and 3:00 p.m. on weekdays. The frequency of overflow varies depending on industrial discharge rates. It does not appear to be related to rainfall events. Overflows were observed at least once a week and were noted on ten consecutive weekdays in April 1978. Intermittent overflows may have occurred during the last few years. These sanitary overflows are a major source of pollutants in the Blanchard Street storm sewer. City forces had been cleaning the Blanchard Street sanitary sewer when backups and overflows were reported. Equipment breakdowns and manpower shortages caused a suspension of cleaning operations in 1978.

Prior to cleaning, the storm sewer contained between 1.0 and 1.5 feet of primarily granular sediment mixed with black oil. The oil, which comes from the overflowing sanitary sewer, coats the inside of the pipes and manholes. Several inlets were filled with debris and sediment. The tide gate is mounted on a headwall on the river bank. The gate was being held open by sediment and debris during the first field inspection. The gate appeared to be fully operational after City personnel removed the sediment in April 1978. In subsequent inspections floating debris had lodged again under the gate indicating the need for frequent maintenance. A continuous waste

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discharge was noted. Dry weather flow rates, varying between 10,000 gpd and 100,000 gpd were estimated using depth measurements. The source of this flow appears to be groundwater. Dry weather flow was observed above manhole B-7 only when the sanitary sewer was overflowing or the drainage ditches along the Conrail industrial spurs were flooded.

Inlets B-106, B-107, B-108, B-109, B-110 and B-111 receive flow from the railroad spurs and sidings. The ditches along these tracks drain wet lands which were observed to contribute continuous flow for up to two weeks during wet periods. Chemical spillage was observed on the tracks and in the adjacent ditches. The source of the chemicals appears to be leakage from railroad tank cars. No leaking cars were observed, however. Major spills were noted from the Atlas Refinery Inc. railroad siding. Rain washes some of this spillage through the drainage ditches and railroad ballast into the Blanchard Street storm inlets. Since no leaking cars were found on the Conrail spurs, it is not possible to link other specific industries to the spillage. Valves may not always be closed when the cars are unloaded and chemicals may drip out while the cars are standing on the spurs in a totally random pattern. The Fairmount Chemical Company, the Benjamin Moore Company, Atlas Refinery Inc, and the Fiske Brothers Refining Company all receive tank cars through this railroad spur.

Four pipes were observed along the railroad tracks west of Blanchard Street. Two of the pipes drain the Delissa Pallet storage area and are not sources of pollution. The other two are filled with earth and appear to be old railroad culverts. Railroad drainage ditches are connected to inlets B-106 and B-108 by pipes. The pipe at B-108 is clogged with earth; this causes partial flooding of the siding during rainfall events. Leaks were found in the walls and under the frames of inlet B-106 and B-107 when the ground was saturated. The sanitary sewer is adjacent to inlet B-107 at an elevation lower than the leaks observed. The inlet was inspected in dry

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V. Lockwood Street Outfall

A. Physical Inspection Findings

The storm sewers in Lockwood Street, Lister Avenue, Chapel Street, Albert Avenue, Euclid Avenue and the Morris Canal Right-of-Way all drain through the Lockwood Street outfall (see Plate 2). Drainage from parts of Raymond Boulevard, Ferry Street, and the Pulaski Skyway ramp are also connected to the Lockwood Street system. Separate sanitary sewers serve the entire area. All storm manholes and inlets in the study area were inspected. The limits of tidal flow were identified and all sources of dry weather flow were isolated. Chemical spills at industrial facilities were noted. The Morris Canal storm sewer west of Lockwood Street (LW-8 to MC-11) was lamped.

(1) Lister Avenue Sewer

The manholes, inlets and pipes on Lister Avenue were coated with a black oily material. Sediment depth varied between 0.5 and 1.5 feet. The source of the oil was spillage at the B-Line Trucking Company. Tank trucks are allowed to drain while parked at this facility. Black oily chemicals flow into inlets on Lister Avenue and Esther Street. The flow into Esther Street is continuous and the curb has been broken out to facilitate it.

A continuous flow of viscous orange chemicals was observed entering an inlet on Cornelia Street. This material came from leaking drums stored on the Cellomer Corporation property. These chemicals were entering the Lister Avenue storm sewer. Intermittent spillage of black oily chemicals was noted at the Fiske Brothers Refining Company railroad siding and a very small volume of water and oil from that industry was being discharged into Esther Street. Both flows

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were entering the Lister Avenue storm sewer. A cooling water discharge pipe from Fiske Borthers was found at the inlet on the southwest corner of Lockwood Street and Lister Avenue. A 2-inch ± connection was found entering inlet LS-10. Because of its diameter, it is improbable that this line contains wastes. It was not flowing when inspected. The only building near LS-10 is occupied by the State Produce Company. No dry weather flow was observed upstream of manhole LS-12 and no sources of pollution are suspected above that point.

(2) Morris Canal Sewers

Continuous flow was observed in the Morris Canal storm sewers east and west of Lockwood Street. The flow in the easterly line (LW-8 to MC-105) was traced to the Newark Boxboard Company. This flow was estimated at 0.16 mgd using depth measurements. The municipal swimming pool on Waydell Street was discharging an estimated 0.07 mgd into the westerly line upstream of manhole MC3. The car wash drains at the Sunoco Station on Raymond Boulevard were found to be connected to the storm sewer between manholes MC3 and MC-4. Personnel at Associated Auto Body and Trucks Inc. were observed dumping paint into the storm sewer between manholes MC-6 and MC-7. Manhole MC-7 is the limit of tidal influence and no dry weather flow was observed upstream of that point. A partial blockage was found in the invert of manhole MC-2. Sediment varying in depth between 0.5 and 1.0 feet was noted between manholes LW-8 and MC-7.

(3) Euclid Avenue Sewer

The flow in the Euclid Avenue storm sewer, estimated at 0.02 mgd, was traced to the Reddaway Manufacturing Company's cooling water discharge at inlet E-104.

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(4) Albert Avenue Sewer

Tidal flow was observed in the Albert Avenue storm sewer up to manhole A-3. A minor, intermittent flow of water and oil from Cellomer enters the Cornelia Street gutter and flows to the Albert Avenue storm sewer. However, no dry weather flow was actually observed upstream of manhole A-3.

(5) Lockwood Street Sewer

No dry weather flow was observed in the Lockwood Street storm sewer upstream of manhole LW-8. There is no indication of pollutant sources above that point. The cross-connections shown on the sewer plans were inspected and found to be sealed. A railroad drain on the south side of the Messinger Trucking and Warehouse Corporation building appeared to be connected to the Lockwood Street sanitary sewer. Major spillage of chemicals was observed at the Atlas Refinery Inc. railroad siding. The eastern portion of this siding drains into railroad drainage ditches that are connected to the Blanchard Street storm sewer system. The discharges from Newark Boxboard, the municipal swimming pool, and Reddaway Manufacturing produce a base discharge of approximately 0.25 mgd.

(6) Lister Avenue Tide Gate

There was no evidence of chemical attack or deterioration of the concrete chamber. Sediment in the invert of the chamber prevents the Lister Avenue tide gate from closing completely. The gate allows inflow during the rising tide. Assuming a five foot tidal range and an open tide gate, approximately 270,000 gallons of river water enters with each incoming tide, mixes with pollutants being discharged into the system and flows back into the river as the tide falls. A typical diurnal flow pattern at the tide gate is shown on Plate 9. If

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the tide gates were to close completely, the discharge from the system of any polluted flow would be restricted to a relatively short period around low tide.

(7) Lockwood Street Outfall

An abandoned railroad drain was found connected to manhole LS-1. The last 25 feet of the 72-inch outfall was exposed and showed evidence of chemical attack. Portion of the crown had completely deteriorated. The headwall was not deteriorated and there was no evidence of chemical attack below the spring line of the pipe.

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B. Dry Weather Flow Sampling and Flow Montoring

Sources of dry weather flow and limits of tidal influence were noted during the physical survey. Those sewers in which flow was observed were subdivided for sampling. The first set of samples was obtained on May 2, 1978. The second set was taken on June 14, 1978. The laboratory analysis of these samples is shown in Appendix A. Both sets of samples show high levels of pollution on Lockwood Street, Lister Avenue, Albert Avenue, and the easterly portion of the Morris Canal storm sewer. The samples in the Euclid Avenue sewer fell within water quality standards. Because of tidal action, it was not possible to confirm that all high pollutant readings were caused by discharges near the respective sampling points. A discharge of pollutants anywhere in the system within the tidal range could be mixed and carried to distant sampling points. Samples were obtained at the following locations.

LW-0	Lockwood Street Outfall at the Passaic River
LS-2	Lister Avenue upstream of the tide gate chamber
LS-4	Lister Avenue upstream of Lockwood Street
LS-7	Lister Avenue at Joseph Street
LW-1	Lockwood Street upstream of Lister Avenue
LW-4	Lockwood Street upstream of Albert Avenue
LW-7	Lockwood Street downstream of the Morris Canal
A-1	Albert Avenue at Lockwood Street
A-3	Albert Avenue at Joseph Street
E-1	Euclid Avenue at Lockwood Street
E-104	Euclid Avenue (cooling water connection at inlet)
MC-1	Morris Canal at Lockwood Street (west side)
MC-3	Morris Canal 500 ft. west of Lockwood Street
MC-7	Morris Canal 1400 ft. west of Lockwood Street
MC-100	Morris Canal at Lockwood Street (east side)
MC-104	Morris Canal 800 ft. east of Lockwood Street

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Euclid Avenue was eliminated from further study because of sampling results. The cooling water discharged at Reddaway Manufacturing was sampled at inlet E-104. The Morris Canal storm sewer west of Lockwood Street (LW-8 to MC-11) was eliminated on the basis of physical inspection, lamping and sampling. The intermittent sources of pollution at the Sunoco Car Wash and Associated Auto Body have been identified. The high levels of pollutants detected at manhole MC-1 in the May 2 sampling is attributed to these sources. Sediment downstream caused flow to pool at manhole MC-7 and remain there as the tide went out. Pollutants from downstream appear to have been carried into that manhole by the tide causing the contamination detected in the MC-7 sample on June 14. The 72-inch Lockwood Street Outfall was not televised because there was no evidence of pollutant sources in the line. The Benjamin Moore Company is the only industry adjacent to the outfall. Maps provided by the City of Newark show the roof drains from one building connected to the outfall. The Benjamin Moore laboratory is located in that building but there are no chemical process facilities. The plant engineer indicates that all other surface and roof drainage is pumped directly into the Passaic River. All other storm sewers in which flow was observed were scheduled for television inspection.

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C. Smoke Testing

The storm and sanitary sewers on Lockwood Street, Lister Avenue, Albert Avenue, and the easterly portion of the Morris Canal right-of-way were smoke tested. No problems were observed when the storm sewers were tested. The pipe connecting to manhole LS-1 was found to terminate in an embankment along the nearby railroad spur. This pipe may have functioned as a railroad drain before the track elevation was lowered; it serves no purpose now. The effectiveness of the smoke testing may have been reduced in the larger storm sewers. Blowers were used to force smoke into the pipes under pressure. The volume of the Lockwood Street storm sewer (66-inch) and the number of inlet openings reduced the pressure behind the smoke and may have prevented it from reaching remote connections.

Three inflow sources were detected when the sanitary sewer was smoke tested. All observed roof and area drains at Atlas Refinery Inc. were connected to the sanitary sewer. These drains are a major source of inflow and should be reconnected to the storm sewer. A cross connection was found at the intersection of Joseph Street and Lister Avenue. The storm inlet at the southwest corner of the intersection is connected to the adjacent sanitary manhole. The sanitary sewer elevation is lower than the inlet invert. Sanitary sewage could enter the storm sewer if a blockage occurred. Smoke also escaped from the site of a demolished building at the southwest corner of the Lockwood Street-Albert Avenue intersection. It appears that the building connection was not sealed. No smoke was observed escaping from plumbing vents. It is probable that all connections to the storm and sanitary sewer have line traps which would prevent the passage of smoke.

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D. Television Inspection

The following lengths of storm sewer were inspected using closed circuit television.

Lister Avenue	LS-1 to LS-3
Lister Avenue	LS-4 to LS-11
Lockwood Street	LS-3 to LW-8
Albert Avenue	A-1 to A-3
Morris Canal	LW-8 to MC-104

The inspection of the Lister Avenue line revealed an oil separator at Atlas Refinery Inc. connected to the 66-inch storm sewer approximately 120 ft. upstream of manhole LS-2. This connection is believed to be a major source of pollutants. There is a railroad siding drainage system connected to this oil separator. Tank cars containing chemicals are unloaded at the siding daily and spills are frequent. Much of the spillage is believed to pass through the separator and enter the Lister Avenue storm sewer. No other sources of flow were found during the television inspection of Lister Avenue. Significant settlement was noted between LS-4 and LS-11. The television camera went under water frequently and came out at inlets and manholes. Most lengths of pipe had settled more than 15 inches. Based upon the portions of line that could be seen and the relatively recent date of construction (1970), no illegal connections are suspected. The pollution in the line results from spillage at B-Line Trucking and Cellomer, as well as pollutants washed in by the tide. The flow from the Atlas oil separator, immediately downstream, could cause high pollutant concentrations in the Lister Avenue storm sewer.

Several connections were found in the Lockwood Street storm sewer between manholes LW-4 and LW-3. Pipes were located 34 ft., 92 ft., 104 ft., 133 ft., 143 ft. and 200 ft. downstream of manhole

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LW-4. The pipes at 92 ft. and 104 ft. are shown on old plans as connections to inlets at the intersection. These inlets were connected to the new Albert Avenue storm sewer in 1970. The pipes at 34 ft., 143 ft. and 200 ft. appear to be roof or floor drain connections to the Messinger Trucking and Warehouse Corporation building. There are no wastes eminating from this facility. The connection at 143 ft. may also be a concrete spall; the pipe could not be seen clearly. The connection at 133 ft. comes from the west side of the street in the vicinity of the Albert Avenue intersection. This pipe is not shown on the storm sewer plans, but it may be an abandoned inlet connection. These connections were not flowing when the pipe was televised.

A connection of unknown origin was observed in the Lockwood Avenue storm sewer 53 ft. downstream of manhole LW-3. Inlet connections were also observed 170 ft. and 183 ft. downstream of LW-3. The pipe at 53 ft. connected on the east side and may be from Atlas Refinery Inc. A pipe crossing broken into the crown of the 66-inch line and running perpendicular to it was noted at 201 ft. These pipes were not flowing when televised. A 2-inch ± connection located approximately 10 ft. upstream of manhole LW-2 has been observed by City personnel. This connection comes from the east side of the street and was discharging flow when observed. This connection appeared to originate at Atlas Refinery Inc.

Three connections were noted between manholes LW-2 and LW-1 in the Lockwood street storm sewer. Pipes were observed 149 ft., 159 ft. and 215 ft. downstream of manhole LW-2. The connection at 159 ft. is believed to be from an inlet that was removed during construction of a new building at Atlas Refinery Inc. The connection at 149 ft. appeared to be a large pipe 24-inch ± surrounded by roots. It could also be a connection crossing the 66-inch line. The connection at 215 ft. was from the westerly side of the street. It

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could not be seen clearly and may be a concrete spall. No flow was observed from any of these pipes.

No improper connections were found in the Albert Avenue storm sewer or in the Morris Canal line between manholes LW-8 and MC-104. The pollutants detected in the Albert Avenue line appear to have been carried in by tidal action. Two sources of pollutants are suspected in the Morris Canal sewer east of Lockwood Street. The limit of tidal influence is downstream of manhole MC-104. Yet, pollutants were detected in the sample obtained at that manhole. Newark Boxboard discharges the flow sampled at MC-104 and that flow is polluted. However, the concentration of pollutants downstream, at manhole MC-100, is three times greater than at MC-104. Some pollutants may settle into the sediment during the high tide periods. Flow from Newark Boxboard may flush some of this material and carry it into the Lockwood Street storm sewer.

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E. Conclusions and Recommendations

1. Several improvements are required at Atlas Refinery Inc. The firm should be required to connect its oil separator to the sanitary sewer rather than to the storm sewer. The spillage at the railroad siding should be cleaned up and procedures developed to prevent future spills. Roof and area drains should be connected to the storm sewer rather than to the sanitary sewer as at present. The plant has been expanded several times over the years and complete plans of the piping systems are not available. The Lockwood Street storm sewer is located under the sidewalk in front of the Atlas plant. Connections could have been made without excavation in the street. Connections of unknown origin between manholes LW-3 and LW-1 appear to lead to drains in the Atlas plant complex. Fiske Brothers Refining Company, the industry across the street, is a less likely point of origin since they would have had to excavate the street and cross the sanitary sewer to make connections to the storm sewer. Atlas should be required to evaluate its piping and identify connections to the storm sewer. Any sanitary facilities, chemical processes, or drains that accept polluted flow should be reconnected to the sanitary sewer. Authorized discharges to the storm sewer should be made through a manhole or chamber to allow monitoring by the City.

2. Fiske Brothers Refining Company should be required to cease discharging oil and water into Esther Street and to prevent spills at their railroad siding. Fiske Brothers should be required to identify existing connections to the storm sewer. Connections that accept pollutants should be reconnected to the sanitary sewer. Connections that carry

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nonpolluted flow should be made through a chamber to facilitate monitoring by the City.

3. After Atlas and Fiske Brothers have evaluated their piping and reconnected lines as necessary, the remaining connections of unknown origin between LW-3 and LW-1 should be sealed as a precaution. Initially, temporary plugs should be installed. If the lines are active, a backup will be reported. If no problems occur after one month, the connections should be permanently sealed. The connections observed between LW-4 and LW-3 are believed to be roof drains from the Messinger Warehouse and abandoned inlet connections. They should not be sealed.

4. B-Line Trucking Company should be required to cease discharging black oily waste into Lister Avenue and Esther Street. The spillage that has already occurred should be cleaned up. This flow is believed to be the major source of black oil in the system.

5. Newark Boxboard Company should be required to evaluate its internal piping. Only nonpolluted flow should be discharged into the Morris Canal storm sewer. Polluted flow should be discharged into the Blanchard Street sanitary sewer after that line is cleaned. The City should monitor the flow at manhole MC-104 to assure compliance.

6. Associated Auto Body and Trucks, Inc. should be prohibited from dumping paint or other wastes into the Morris Canal storm sewer.

7. The car wash drains at the Sunoco Station should be reconnected to the sanitary sewer. Suitable grit removal and oil separation facilities should be provided.

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8. Cellomer Corporation should be required to clean up the spillage on their property and cease discharging oil into Cornelia Street. It should be noted that Cellomer was informed of this problem and cleanup operations were underway.

9. Sources of inflow should be eliminated. The cross connection at the intersection of Joseph Street and Lister Avenue should be sealed. The railroad siding drain on the south side of the Messinger Warehouse should be disconnected from the sanitary sewer. The Atlas roof and area drains have already been discussed.

10. The Lister Avenue storm sewer, west of Lockwood Street should be cleaned of debris, sediment and oily wastes.

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Decide with Confidence

Comprehensive Report Now with NEW Features

FISKE BROTHERS REFINING CO

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Credit Limit Recommendation
D&B RESOURCES
Full Glossary of Terms
Making Better Credit Decisions
Interpreting D&B Ratings and Scores

Overview

BUSINESS SUMMARY

About Business Summa

FISKE BROTHERS REFINING CO
129 Lockwood St
Newark, NJ 07105

D&B D-U-N-S Number: 00-215-3070

Rating Change

This is a **headquarters** location. Branch(es) or division(s) exist.

Web site:	www.lubriplate.com
Telephone:	973 589-9150
Fax:	973 589-4432
Chief executive:	RICHARD T MC CLUSKEY, CHB-PRES
Year started:	1870
Management control:	1953
Employs:	109 (34 here)
Financial statement date:	DEC 31 2004
Sales F:	$24,264,538
Net worth F:	$9,630,277
History:	CLEAR
Financial condition:	STRONG

• Jump to: Finance Section

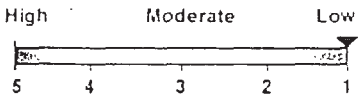
Now Included with this Report NEW!

D&B's Credit Limit Recommendation
How much credit should you extend?
Learn More View Now

Payment Trends Profile
Payment trends and industry benchmarks
Jump to Payment Trends

Credit Score Class: 1

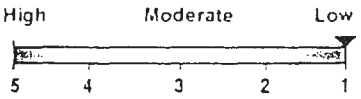
Low risk of severe payment delinquency over next 12 months



• Jump to: Credit Score Class Summary

Financial Stress Class: 1

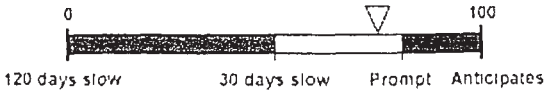
Low risk of severe financial stress over the next 12 months



• Jump to: Financial Stress Summary

12-Month D&B PAYDEX®: 76

When weighted by dollar amount, payments to suppliers average 6 days beyond terms.



• Jump to: PAYDEX

FJK000036

D&B Rating: 3A1

932110051

Understanding Financial Statements
Understanding Key Business Ratios
Submit a Credit Reference on this Business

SIC: 2992
• Jump to: SIC & NAICS Section

Line of business: Mfg greases & blends lubricating oils

Formerly 1R2

Financial strength: 3A is **$1 to 10 million.**

Composite credit appraisal: 1 is **high.**

• Jump to: Credit Capacity Summary

Corporate Family

View the interactive global family tree for this business - now included as part of your Preferred Pricing subscription.

This business is at the top of the corporate family. Click the link below to view subsidiaries and branches.

View more family members

D&B EXCLUSIVE

EXECUTIVE SUMMARY

Back to Top

About Executive Summa

The **Financial Stress Class of 1** for this company shows that during the previous year, firms with this classification had a failure rate of 0.49% (49 per 10,000), which is lower than the national average.

The **Credit Score class of 1** for this company shows that during the previous year, 2.3% of the firms with this classification paid one or more bills severely delinquent, which is lower than the national average.

Financial information from a fiscal statement dated 12/31/04 is included.

Predictive Scores	This Business	Comments
Financial Stress Class	1	Failure Rate lower than the national average
Financial Stress Score	1526	Highest Risk: 1,001; Lowest Risk: 1,850
Credit Score Class	1	Probability of Severely Delinquent Payment is lower than the national average

Other Key Indicators		
Current PAYDEX	6 days beyond terms	Pays more promptly than the average for its industry of 8 days beyond terms
Industry Median	8 days beyond terms	
Present management control	52 years	
UCC Filings	UCC filing(s) are reported for this business	
Public Filings	No record of open Suit(s), Lien(s), or Judgment(s) in the D&B database	
History	Is clear	
Special Events	Are reported for this business	

CREDIT CAPACITY SUMMARY

Back to Top

About Credit Capacity Summa

D&B Rating: **3A1**

Financial strength: 3A indicates **$1 to 10 million.**

FJK000037

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Composite credit appraisal: 1 is **high**.

This credit rating was assigned because of D&B's assessment of the company's financial ratios and its cash flow. For more information, see the **D&B Rating Key**.

Sales:	$24,264,538	**Payment Activity:** (based on 74 experiences)	
# of Employees Total:	109 (34 here)		
As of 12/31/04		**Average High Credit:**	$8,670
Worth:	$9,630,277	**Highest Credit:**	$100,000
Working Capital:	$6,034,944	**Total Highest Credit:**	$622,450

Note: The Worth amount in this section may have been adjusted by D&B to reflect typical deductions, such as certain intangible assets.

SPECIAL EVENTS About Special Eve
Back to Top

11/15/2004
A Rating change has occurred on this company.

Jump to:

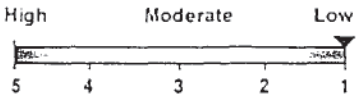
Overview | Payments | Public Filings | History & Operations | Banking & Finance

Scores D&B EXCLUSIVE

FINANCIAL STRESS SUMMARY About Financial Stress Summa
Back to Top

The Financial Stress Summary Model predicts the likelihood of a firm ceasing business without paying all creditors in full, or reorganization or obtaining relief from creditors under state/federal law over the next 12 months. Scores were calculated using a statistically valid model derived from D&B's extensive data files.

Financial Stress Class: **1**



Low risk of severe financial stress, such as a bankruptcy, over the next 12 months.

Incidence of Financial Stress

Among Businesses with this Classification:	0.49% (49 per 10,000)
National Average	1.40% (140 per 10,000)

Financial Stress National Percentile: **93** (Highest Risk: 1; Lowest Risk: 100)

Financial Stress Score: **1526** (Highest Risk: 1,001; Lowest Risk: 1,850)

The Financial Stress Class of this business is based on the following factors: FJK000038

- No record of open suit(s), lien(s), or judgement(s) in the D&B files.
- Control age or date entered in D&B files indicates lower risk.
- Payment experiences exist for this firm which are greater than 60 days past due.
- 9% of trade experiences indicate slow payment(s) are present.
- Business owns facilities.

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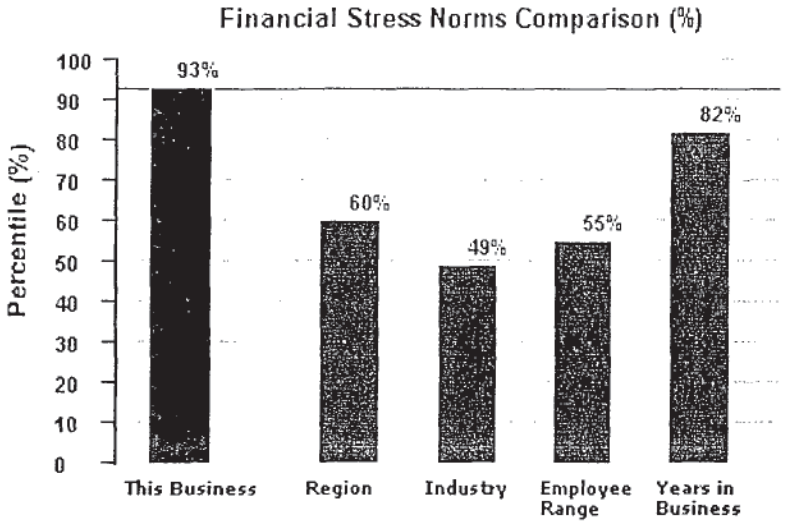
Notes:

- The Financial Stress Class indicates that this firm shares some of the same business and financial characteristics of other companies with this classification. It does not mean the firm will necessarily experience financial stress.
- The Incidence of Financial Stress shows the percentage of firms in a given Class that discontinued operation over the past year with loss to creditors. The Incidence of Financial Stress - National Average represents the national failure rate and is provided for comparative purposes.
- The Financial Stress National Percentile reflects the relative ranking of a company among all scorable companies in D&B's file.
- The Financial Stress Score offers a more precise measure of the level of risk than the Class and Percentile. I is especially helpful to customers using a scorecard approach to determining overall business performance.
- All Financial Stress Class, Percentile, Score and Incidence statistics are based on 2002.



Region=MIDDLE ATLANTIC
Industry=MANUFACTURING
Employee Range=100-499
Years in Business=26+

Norms	National %
This Business	93
Region: **MIDDLE ATLANTIC**	60
Industry: **MANUFACTURING**	49
Employee Range: **100-499**	55
Years in Business: **26+**	82

This business has a Financial Stress Percentile that shows:

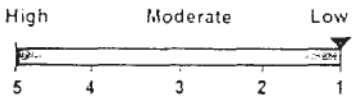
- Lower risk than other companies in the same region.
- Lower risk than other companies in the same industry.
- Lower risk than other companies in the same employee size range.
- Lower risk than other companies with a comparable number of years in business.

CREDIT SCORE CLASS SUMMARY (?) About Credit Score Class Summ

Back to Top

The Credit Score class predicts the likelihood of a firm paying in a severely delinquent manner (90+ Days Past Terms) over the next twelve months. It was calculated using statistically valid models and the most recent paymer information in D&B's files.

Credit Score Class: **1**



Low risk of severe payment delinquency over next 12 months.

Incidence of Delinquent Payment

FJK000039

Among Companies with this Classification: 2.30%

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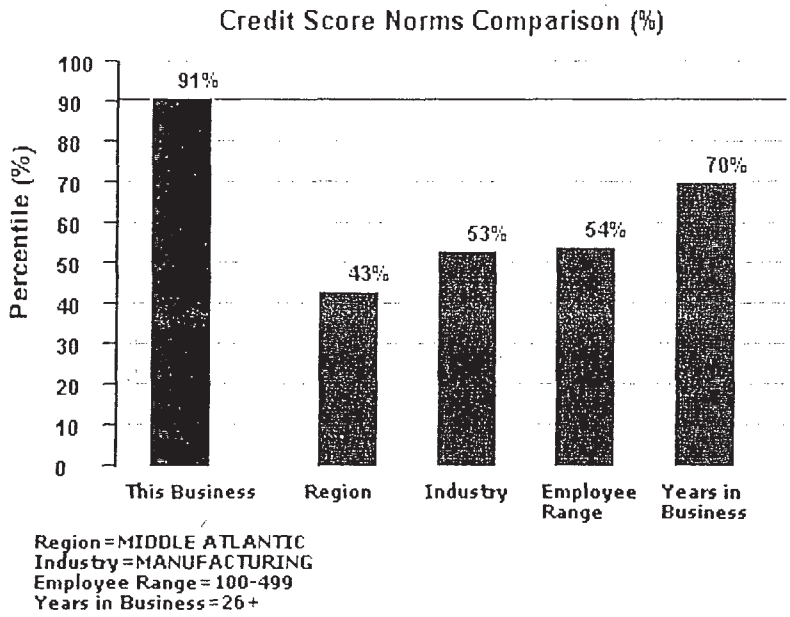
Credit Score Percentile: 91 (Highest Risk: 1; Lowest Risk: 100)

The Credit Score Class of this business is based on the following factors:

- Control age or date entered in D&B files indicates lower risk.
- No record of open suit(s), lien(s), or judgments(s) in the D&B files.
- D&B files indicate a net worth of $9,630,277.
- Quick ratio is 1.1.

Notes:

- The Incidence of Delinquent Payment is the percentage of companies with this classification that were reported 90 days past due or more by creditors. The calculation of this value is based on an inquiry weighte sample.
- The Percentile ranks this firm relative to other businesses. For example, a firm in the 80th percentile has a lower risk of paying in a severely delinquent manner than 79% of all scorable companies in D&B's files.



Norms	National %
This Business	91
Region: **MIDDLE ATLANTIC**	43
Industry: **MANUFACTURING**	53
Employee Range: **100-499**	54
Years in Business: **26+**	70

This business has a Credit Score Percentile that shows:

- Lower risk than other companies in the same region.
- Lower risk than other companies in the same industry.
- Lower risk than other companies in the same employee size range.
- Lower risk than other companies with a comparable number of years in business.

Jump to:

Overview | Scores | Public Filings | History & Operations | Banking & Finance

Payments D&B EXCLUSIVE

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PAYMENT TRENDS (?) About Payment Trer

Back to Top

Total Payment Experiences in D&B's File: 74

Current PAYDEX is: **76** equal to 6 days

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				beyond terms
Payments Within Terms: (not dollar weighted)	94%	**Industry Median is:**	**75**	equal to 8 days beyond terms
Total Placed For Collection:	0	**Payment Trend currently is:**		**unchanged,** compared to payments three months ago
Average Highest Credit:	$8,670			
Largest High Credit:	$100,000			
Highest Now Owing:	$85,000			
Highest Past Due:	$65,000			

Indications of slowness can be the result of dispute over merchandise, skipped invoices, etc. Accounts are sometimes placed for collection even though the existence or amount of the debt is disputed.

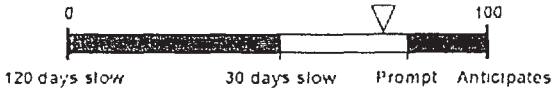
PAYDEX Scores
Back to Top

About PAYDEX Scor

Shows the D&B PAYDEX scores as calculated on the most recent 3 months and 12 months of payment experiences

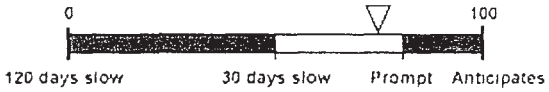
The D&B PAYDEX is a unique, dollar weighted indicator of payment performance based on up to payment experiences as reported to D&B by trade references. A detailed explanation of how to read and interpret PAYDEX scores can be found at the end of this report.

3-Month D&B PAYDEX: 75
When weighted by dollar amount, payments to suppliers average 8 days beyond terms.



Based on payments collected over last 3 months.

12-Month D&B PAYDEX: 76
When weighted by dollar amount, payments to suppliers average 6 days beyond terms.



Based on payments collected over last 12 months.

D&B PAYDEX Key

- High risk of late payment (average 30 to 120 days beyond terms)
- Medium risk of late payment (average 30 days or less beyond terms)
- Low risk of late payment (average prompt to 30+ days sooner)

PAYDEX Yearly Trend
Back to Top

About PAYDEX Yearly Tre

12 Month PAYDEX Scores Comparison to Industry

	1/05	2/05	3/05	4/05	5/05	6/05	7/05	8/05	9/05	10/05	11/05	12/05
This Business	79	77	76	76	76	76	76	75	76	76	76	76
Industry Quartiles												
Upper			79			79			79			79
Median			75			76			75			75
Lower			69			69			69			68

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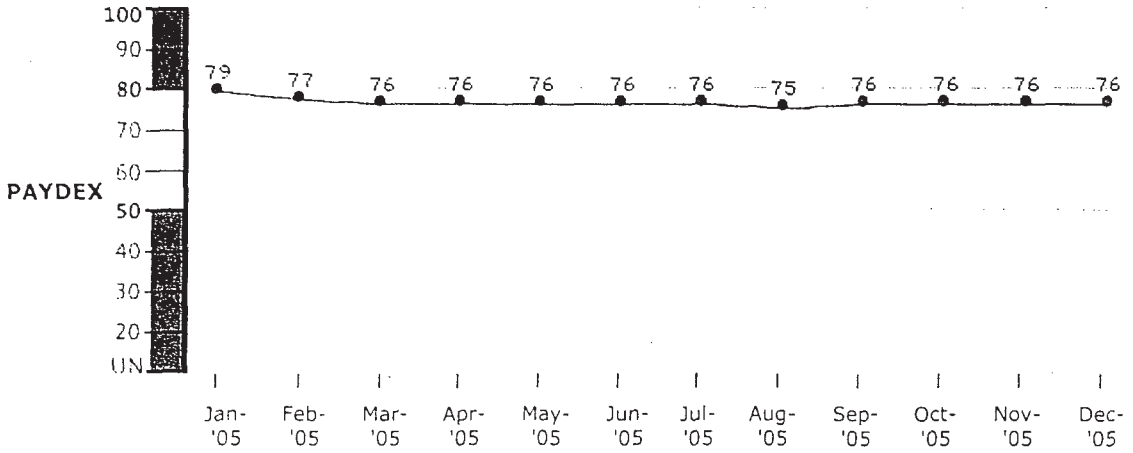
Shows the trend in D&B PAYDEX scoring over the past 12 months.



Last 12 Months

Based on payments collected over the last 12 months.

- Current PAYDEX for this Business is 76, or equal to 6 days beyond terms
- The 12-month high is **79**, or equal to 2 days beyond terms
- The 12-month low is **75**, or equal to 8 days beyond terms

PAYDEX Comparison to Industry

Back to Top

About PAYDEX Comparison to Indus

Shows PAYDEX scores of this Business compared to the Primary Industry from each of the last four quarters. The Primary Industry is Mfg greases & blends lubricating oils, based on SIC code 2992.

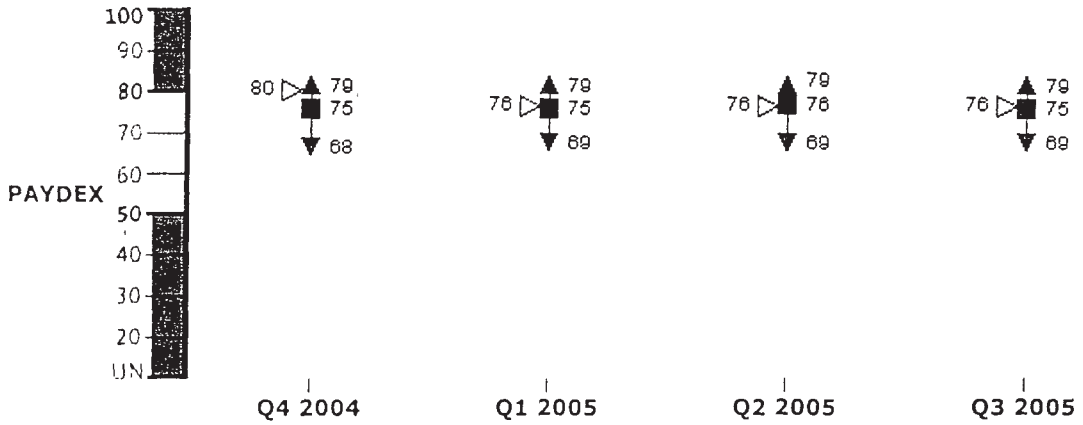
Quarterly PAYDEX Scores Comparison to Industry

Previous Year

	12/03	3/04	6/04	9/04
This Business	UN	76	79	79
Industry Quartiles				
Upper	79	79	79	79
Median	75	75	75	75
Lower	69	69	69	68

Current Year

	12/04	3/05	6/05	9/05
This Business	80	76	76	76
Industry Quartiles				
Upper	79	79	79	79
Median	75	75	76	75
Lower	68	69	69	69



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Last 12 Months

Based on payments collected over the last 4 quarters.

Score Comparison Key: ▷ This Business ▲ Industry upper quartile ■ Industry median ▼ Industry lower quartile

- Current **PAYDEX** for this Business is **76**, or equal to 6 days beyond terms
- The present industry **median score** is **75**, or equal to 8 days beyond terms.

- Industry upper quartile represents the performance of the payers in the 75th percentile
- Industry lower quartile represents the performance of the payers in the 25th percentile

Payment Habits
Back to Top

About Payment Hat

For all payment experiences within a given amount of credit extended, shows the percent that this Business paid within terms. Provides number of experiences used to calculate the percentage, and the total dollar value of the credit extended.

$ Credit Extended	% of Payments Within Terms	# Payment Experiences	$ Total Dollar Amount
Over 100,000	83%	3	$300,000
50,000-100,000	100%	2	$105,000
15,000-49,999	86%	4	$105,000
5,000-14,999	100%	6	$40,000
1,000-4,999	87%	18	$28,500
Under 1,000	97%	35	$11,100

0% 50% 100%

Based on payments collected over the last 12 months.

Payment experiences reflect how bills are met in relation to the terms granted. In some instances, payment beyond terms can be the result of disputes over merchandise, skipped invoices, etc.

PAYMENT SUMMARY
Back to Top

About Payment Summa

The Payment Summary section reflects payment information in D&B's file as of the date of this report.

There are 74 payment experiences in D&B's file for the most recent 12 months, with 58 experiences reported during the last three month period.

Below is an overview of the company's dollar-weighted payments, segmented by its suppliers' primary industries:

Total Rcv'd (#)	Total Dollar Amts ($)	Largest High Credit ($)	Within Terms (%)	Days Slow <31 31-60 61-90 90> (%)

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Top industries:

Trucking non-local	20	15,950	2,500	91	9	0	0	0
Nonclassified	7	31,250	10,000	100	0	0	0	0
Telephone communictns	4	900	500	100	0	0	0	0
Mfg inorganic chemcls	3	155,000	100,000	100	0	0	0	0
Whol electrical equip	3	1,350	1,000	100	0	0	0	0
Radiotelephone commun	3	650	500	100	0	0	0	0
Short-trm busn credit	3	1,250	500	90	10	0	0	0
Petroleum refining	2	155,000	100,000	100	0	0	0	0
Whol industrial suppl	2	100,250	100,000	50	50	0	0	0
Misc business credit	2	1,250	750	100	0	0	0	0
Mfg metal cans	1	50,000	50,000	100	0	0	0	0
Paperboard mill	1	30,000	30,000	50	0	0	0	50
Whol chemicals	1	20,000	20,000	100	0	0	0	0
Sawmill/planing mill	1	5,000	5,000	100	0	0	0	0
Mfg millwork	1	5,000	5,000	100	0	0	0	0
Whol misc profsn eqpt	1	5,000	5,000	100	0	0	0	0
Mfg crowns/closures	1	2,500	2,500	50	50	0	0	0
Whol industrial equip	1	2,500	2,500	100	0	0	0	0
General warehousing	1	2,500	2,500	50	50	0	0	0
Ret mail-order house	1	1,000	1,000	100	0	0	0	0
Natural gas distrib	1	1,000	1,000	100	0	0	0	0
Ret-direct selling	1	750	750	100	0	0	0	0
Mfg photograph equip	1	250	250	100	0	0	0	0
Mfg paint/allied prdt	1	250	250	100	0	0	0	0
Regulate trnsprtation	1	250	250	100	0	0	0	0
Mfg industrial gases	1	250	250	100	0	0	0	0
Whol durable goods	1	250	250	100	0	0	0	0
Whol electronic parts	1	100	100	100	0	0	0	0
Whol service paper	1	100	100	100	0	0	0	0
Whol hardware	1	50	50	100	0	0	0	0
Whol metal	1	0	0	0	0	0	0	0

Other payment categories:

Cash experiences	0	0	0
Payment record unknown	4	32,850	25,000
Unfavorable comments	0	0	0

Placed for collections:

With D&B	0	0	0
Other	0	N/A	0
Total in D&B's file	74		100,000

The highest **Now Owes** on file is $85,000 The highest **Past Due** on file is $65,000

Accounts are sometimes placed for collection even though the existence or amount of the debt is disputed. Indications of slowness can be result of dispute over merchandise, skipped invoices, etc.

PAYMENT DETAILS

Back to Top

About Payment Deta

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Detailed payment history

Date Reported	Paying Record	High Credit	Now Owes	Past Due	Selling Terms	Last Sale

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(mm/yy)		($)	($)	($)		Within (months)
11/05	Ppt	30,000	0	0		1 mo
	Ppt	5,000	5,000	0		1 mo
	Ppt	2,500	750	0	N15	1 mo
	Ppt	1,000	1,000	0		1 mo
	Ppt	1,000	100	0	N15	1 mo
	Ppt	500	0	0		1 mo
	Ppt	250	0			2-3 mos
	Ppt	250	0	0	N15	1 mo
	Ppt	250	0	0	N15	4-5 mos
	Ppt	0	0	0		6-12 mos
	Ppt-Slow 30	2,500	2,500	0	N15	1 mo
	Ppt-Slow 30	2,500	2,500	750		1 mo
	(013)	25,000	15,000			1 mo
	(014)	7,500	7,500	0	N30.	1 mo
	(015)	100	0	0		1 mo
10/05	Ppt	100,000	0	0		1 mo
	Ppt	100,000	85,000	20,000		1 mo
	Ppt	50,000	2,500	0	N30	1 mo
	Ppt	25,000	25,000	0		1 mo
	Ppt	10,000	0	0		4-5 mos
	Ppt	7,500	0	0		1 mo
	Ppt	5,000	250	0		1 mo
	Ppt	5,000	2,500	0	N30	1 mo
	Ppt	2,500	0	0		1 mo
	Ppt	2,500	750	0		1 mo
	Ppt	1,000	250	250		1 mo
	Ppt	1,000	0	0		2-3 mos
	Ppt	1,000	0	0		2-3 mos
	Ppt	1,000	100	0		1 mo
	Ppt	1,000	0	0	N30	2-3 mos
	Ppt	1,000	750	0	N30	1 mo
	Ppt	1,000	500	0		1 mo
	Ppt	750	0	0		6-12 mos
	Ppt	750	0	0	N30	4-5 mos
	Ppt	500	100	0		1 mo
	Ppt	500	50	0		1 mo
	Ppt	500	0	0		6-12 mos
	Ppt	500	0	0		4-5 mos
	Ppt	250	0	0		1 mo
	Ppt	250	0	0		1 mo
	Ppt	250	100	0		1 mo
	Ppt	250	0	0	N30	4-5 mos
	Ppt	250	0	0		2-3 mos
	Ppt	250	0	0		2-3 mos
	Ppt	100	100	0		1 mo
	Ppt	100	0	0		2-3 mos
	Ppt	50	0	0	N30	6-12 mos
	Ppt	50	50	0		1 mo
	Ppt	0	0	0	N15	6-12 mos

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	Ppt-Slow 30	100,000	75,000	65,000		1 mo
	Ppt-Slow 30	2,500	0	0		2-3 mos
	Ppt-Slow 90+	30,000	25,000	0		1 mo
	(053)	250	250	0	N30	
09/05	Ppt	750	50		Lease Agreemnt	
	Ppt	500	250	0		1 mo
	Ppt	500	500	0		1 mo
	Ppt-Slow 30	250	50	0		1 mo
	(058)	250				1 mo
	Satisfactory.					
08/05	Ppt	1,000	0	0	N30	6-12 mos
	Ppt	750	0	0		1 mo
	Slow 30	250	0	0		6-12 mos
06/05	Ppt	250	0	0		2-3 mos
	Ppt	100	0	0		6-12 mos
05/05	Ppt	7,500	0	0		6-12 mos
	Ppt	2,500	0	0		6-12 mos
04/05	Ppt	500	500	0		1 mo
	Ppt	100	0	0	N30	6-12 mos
01/05	Ppt	1,000	250	0		1 mo
	Ppt	100	0	0	N30	6-12 mos
	Ppt	100	0	0		2-3 mos
	Ppt	50	0	0	N30	6-12 mos
12/04	Ppt	100	0	0	N30	6-12 mos
09/04	Ppt	55,000	55,000	0		1 mo
	Ppt	20,000	0	0		6-12 mos

Payments Detail Key: ■ 30 or more days beyond terms

Payment experiences reflect how bills are met in relation to the terms granted. In some instances payment beyond terms can be the result of disputes over merchandise, skipped invoices etc.

Each experience shown is from a separate supplier. Updated trade experiences replace those previously reported.

Jump to:

Overview | Scores | Payments | History & Operations | Banking & Finance

Public Filings

PUBLIC FILINGS

Back to Top

The following data includes both open and closed filings found in D&B's database on the subject company.

Record Type	# of Records	Most Recent Filing Date
Bankruptcy Proceedings	0	-
Judgments	0	-
Liens	1	09/30/1998
Suits	0	-
UCC's	5	11/12/2004

FJK000046

The following Public Filing data is for information purposes only and is not the official record. Certified copies can

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only be obtained from the official source.

LIENS
Back to Top

About Lie

A lienholder can file the same lien in more than one filing location. The appearance of multiple liens filed by the same lienholder against a debtor may be indicative of such an occurrence.

Amount:	**$4,649**
Status:	**Released**
DOCKET NO.:	98JG14029
Type:	State Tax
Filed by:	STATE OF OHIO
Against:	FISKE BROTHERS REFINING COMPANY
Where filed:	FRANKLIN COUNTY COMMON PLEAS COURT, COLUMBUS, OH
Date status attained:	12/03/1998
Date filed:	09/30/1998
Latest Info Received:	11/25/2002

UCC FILINGS
Back to Top

About UCC Filir

Collateral:	Negotiable instruments including proceeds and products - Inventory including proceeds and products - Accounts receivable including proceeds and products - Assets including proceeds and products - and OTHERS
Type:	Original
Sec. party:	SOVEREIGN BANK, ITS SUCCESSORS AND/OR ASSIGNS, PRINCETON, NJ
Debtor:	FISKE BROTHERS REFINING COMPANY
Filing number:	0411121139216
Filed with:	SECRETARY OF STATE/UCC DIVISION, ALBANY, NY
Date filed:	11/12/2004
Latest Info Received:	11/18/2004

Collateral:	Products - Proceeds - LEASES,SPECIFIC EQUIPMENT
Type:	Original
Sec. party:	AT & T CREDIT CORPORATION, PARSIPPANY, NJ
Debtor:	FISKE BROTHERS REFINING CO INC
Filing number:	AM91788
Filed with:	SECRETARY OF STATE/UCC DIVISION, COLUMBUS, OH
Date filed:	07/29/1996
Latest Info Received:	09/06/1996

Collateral:	Leased Equipment
Type:	Original
Sec. party:	LYNNRAY FINANCIAL CORPORATION, NORCROSS, GA
Debtor:	FISKE BROTHERS REFINING COMPANY, TOLEDO, OH
Filing number:	AP305622
Filed with:	SECRETARY OF STATE/UCC DIVISION, COLUMBUS, OH
Date filed:	01/04/2001
Latest Info Received:	03/16/2001

Collateral:	Leased CONSIGNED MERCHANDISE including proceeds and products
Type:	Original
Sec. party:	AT&T CREDIT CORPORATION, PARSIPPANY, NJ
Debtor:	FISKE BROTHERS REFINING CO INC
Filing number:	1699926
Filed with:	SECRETARY OF STATE/UCC DIVISION, TRENTON, NJ
Date filed:	05/22/1996
Latest Info Received:	06/17/1996

FJK000047

932110062

932110063

Type:	Continuation
Sec. party:	FIRST UNION NATIONAL BANK F/K/A FIRST FIDELITY BANK, N.A., N.J., NEWARK, NJ
Debtor:	FISKE BROTHERS REFINING COMPANY
Filing number:	1465009
Filed with:	SECRETARY OF STATE/UCC DIVISION, TRENTON, NJ
Date filed:	05/16/1997
Latest Info Received:	07/15/1997
Original UCC filed date:	07/16/1992
Original filing no.:	1465009

The public record items contained in this report may have been paid, terminated, vacated or released prior to the date this report was printed.

GOVERNMENT ACTIVITY About Government Activ
Back to Top

Activity summary

Borrower (Dir/Guar):	NO
Administrative debt:	NO
Contractor:	NO
Grantee:	NO
Party excluded from federal program(s):	NO

Possible candidate for socio-economic program consideration

Labor surplus area:	YES (2005)
Small Business:	YES (2005)
8(A) firm:	N/A

The details provided in the Government Activity section are as reported to Dun & Bradstreet by the federal government and other sources.

Jump to:

Overview | Scores | Payments | Public Filings | Banking & Finance

History & Operations

HISTORY About Histo
Back to Top

The following information was reported **09/15/2004**:

Officer(s): RICHARD T MC CLUSKEY, CHB-PRES
EMMETT F BARRETT, V PRES-TREAS
JAMES GIRARD, V PRES-GEN MGR
ROBERT A REH, EXECUTIVE VICE-PRESI
MICHAEL J MCCLUSKEY, SECRETARY

DIRECTOR(S): THE OFFICER(S)

Business started 1870 by Thomas and Frederick Fiske. Present control succeeded 1953. 100% of capital stock is owned by officers.

RICHARD T MC CLUSKEY born 1943. EDUCATION: Graduated from Rutgers University, Newark, NJ. INDUSTRY EXPERIENCE: Employed here since 1962, elected officer 1974.

EMMETT F BARRETT born 1944. EDUCATION: Graduated from St Peter's College, Jersey City, NJ. INDUSTRY EXPERIENCE: Started here 1962, elected officer 1982.

FJK000048

JAMES GIRARD born 1956. EDUCATION: Graduated from Seton Hall University, South Orange, NJ. INDUSTRY EXPERIENCE: Employed here since 1980 as district manager and salesman, named vice president and general manager in 1981.

ROBERT A REH. antecedents ARE UNDETERMINED.

CORPORATE FAMILY About Corporate Fam
Back to Top

View the interactive global family tree for this business - now included as part of your Preferred Pricing subscription.

For more details on the Corporate Family, view the interactive global family tree

Branches (US):
Select companies below to buy Business Information Report(s).

Fiske Brothers Refining Co	Toledo, OH	DUNS # 00-504-3690

BUSINESS REGISTRATION About Business Registrat
Back to Top

CORPORATE AND BUSINESS REGISTRATIONS PROVIDED BY MANAGEMENT OR OTHER SOURCE

The Corporate Details provided below may have been submitted by the management of the subject business and may not have been verified with the government agency which records such data.

Registered Name: Fiske Brothers Refining Co (Inc)

Business type: CORPORATION
Corporation type: PROFIT
Date incorporated: FEB 10 1891
State of incorporation: NEW YORK

Common stock
Authorized shares: 21,600
Par value: NO PAR VALUE

Where filed: Secretary of State, Albany, NY

OPERATIONS About Operatic
Back to Top

09/15/2004

Description: Manufactures greases and blends lubricating oils. ISO 9001/QS-9000 Registered Quality System.

ADDITIONAL TELEPHONE NUMBER(S): Facsimile (Fax) 973 589-4432.

Terms are Terms are cash, check or credit card, net 30 days and 2% 10 net 30 days. Has 3,000 account(s). Sells to manufacturers, retail and commercial concerns. Territory : USCAN.

Nonseasonal.

Employees: 109 which includes officer(s). 34 employed here.

Facilities: Owns 100,000 sq. ft. in two story brick building.

Location: Industrial section on side street.

Branches: The business also owns a 180,000 sq. ft. facility at 1500 Oakdale Ave, Toledo, OH where all manufacturing is conducted as of Dec 1991.

FJK000049

932110064

SIC & NAICS
Back to Top

About SIC & NAI

SIC:

Based on information in our file, D&B has assigned this company an extended 8-digit SIC. D&B's use of 8-digit SICs enables us to be more specific to a company's operations than if we use the standard 4-digit code.

The 4-digit SIC numbers link to the description on the Occupational Safety & Health Administration (OSHA) Web site. Links open in a new browser window.

29929901 Oils and greases, blending and compounding

NAICS:

324191 Petroleum Lubricating Oil and Grease Manufacturing

Jump to:

Overview | Scores | Payments | Public Filings | History & Operations

Banking & Finance

STATEMENT UPDATE
Back to Top

About Statement Upd

05/24/2005

Fiscal statement dated DEC 31 2004:

Assets		Liabilities	
Cash	2,312,373	Accounts Payable & Accruals	4,422,932
Accts Rec	2,350,616		
Inventory	5,101,301		
Refundable Taxes	108,000		
Deferred Income Taxes	244,305		
Advances To Employees	27,530		
Deferred Financing Costs-Net	26,280		
Prepaid	287,471		
Curr Assets	**$10,457,876**	**Curr Liabs**	**$4,422,932**
Fixt & Equip	4,740,388	L.T. Liab-Other	4,899,079
Prepaid Income Taxes	362,000	CAPITAL STOCK	2,160,000
Investments-Other	867,244	ACCUM OTHER COMPREHENSIVE LOSS-NET	(128,964)
Other Assets	2,524,780	RETAINED EARNINGS	14,760,590
		TREASURY STOCK	(7,161,349)
Total Assets	**$18,952,288**	**Total**	**$18,952,288**

Extent of audit, if any, not indicated.

Fixed assets shown net less $6,520,556 depreciation.

BANKING

About Bank

FJK000050

932110065

Back to Top

BANK: First Union Bank, Newark, NJ

KEY BUSINESS RATIOS
Back to Top

About Key Business Rat

Statement date: DEC 31 2004
Based on this number of establishments: 26

Industry Norms based on 26 establishments

	This Business	Industry Median	Industry Quartile
Profitability			
Return on Sales	UN	2.2	UN
Return on Net Worth	UN	15.6	UN
Short-Term Solvency			
Current Ratio	2.4	2.1	2
Quick Ratio	1.1	1.1	2
Efficiency			
Assets Sales	78.1	41.2	4
Sales / Net Working Capital	UN	8.2	UN
Utilization			
Total Liabs / Net Worth	96.8	112.8	2

UN = Unavailable

FINANCE
Back to Top

About Finar

09/15/2004

Three-year statement comparative:

	Fiscal Dec 31 1999	Fiscal Dec 31 2000	Fiscal Dec 31 2001
Current Assets	12,694,947	11,114,757	11,603,747
Current Liabs	2,471,821	2,498,664	2,121,741
Current Ratio	5.14	4.45	5.47
Working Capital	10,223,126	8,616,093	9,482,006
Other Assets	10,411,756	10,893,678	10,156,401
Net Worth	19,034,997	17,896,846	17,851,791
Sales	15,000,000		
Long Term Liab	1,599,885	1,612,925	1,786,616

Fiscal statement dated DEC 31 2002:

Assets		**Liabilities**	
Cash	5,077,436	Accts Pay	2,103,650
Accts Rec	1,929,079		
Inventory	4,589,750		

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932110066

Refundable Taxes	120,000		
Deferred Income Taxes	298,000		
Due from Employees	37,187		
Prepaid	99,637		
Curr Assets	**$12,151,089**	**Curr Liabs**	**$2,103,650**
Fixt & Equip	5,428,161	L.T. Liab-Other	1,921,109
Defered Charges	3,423,240	CAPITAL STOCK	2,160,000
Investments-Other	814,404	Treasury Stock	(1,645,152)
		RETAINED EARNINGS	17,277,287
Total Assets	**$21,816,894**	**Total**	**$21,816,894**

From JAN 01 2002 to DEC 31 2002 annual sales $24,264,538; cost of goods sold $12,333,494. Gross profit $11,931,044; operating expenses $10,473,498. Operating income $1,457,546; other expenses $674,342; net income before taxes $783,204; Federal income tax $122,718. Net income $660,486.

Submitted by E F Barrett, V Pres Treasurer. Extent of audit, if any, not indicated.

Fixed assets shown net less $5,333,920 depreciation.

Sources contacted verified information on September 7, 2004.

CUSTOMER SERVICE

Back to Top

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Overview Scores Payments Public Filings History & Operations Banking & Financ

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ZapData | Global Family Linkage | Global Marketing Lists
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FJK000052

932110067

9

932110068

Finding Aid: Trade Catalogs: New Brunswick - North Hackensack

- New Brunswick
- New Egypt
- New Hampton
- New Market
- Newark
- North Bergen
- North Brunswick
- North Hackensack
- Nutley

N

New Brunswick

The American and the Wishbone.
New Brunswick, N.J.: American Incubators Inc., 1929.
Illustrated catalog of incubators to raise chicks.
[Size 3]

The American and the Wishbone Mammoth Incubators.
New Brunswick, N.J.: American Incubators Inc., 1929.
Advertisement and price list for incubators to raise chicks.
[Size 2]

The Annihilator cough syrup.
New Brunswick, N.J.: McDonald & Sons Druggists, [1852].
Includes other drugs the store sold.
[Size 1]

Annual descriptive catalogue of garden, field and flower seeds.
New Brunswick, N.J.: Cherry Lawn Farm, 1872.
Also includes vegetable plants, seed potatoes, fertilizers, small fruits and books.
[Size 1]

Brunswick Blueprint Co.
New Brunswick, N.J.: Brunswick Blueprint Co., 1983.
[Size 1]

FJK000053

The Brunswick refrigerating and ice making machinery reference list.
New Brunswick, N.J.: The Brunswick Refrigeration Co., [s.a.].
[Size 1]

932110069

The long distance electric truck.
Newark, N.J.: Atlantic Vehicle Co., [s.a.].
Factory located in Newark.
[Size 2]

Longer routes.
Newark, N.J.: Atlantic Vehicle Company, [s.a.].
[Size 1]

Lubriplate, the white waterproof lubricant: best for reels and guns!
Newark, N.J.: Lubriplate Division, Fiske Brothers Refining Co., [between 1950 and 1960].
[Size 3]

The Macknet rocking grate.
Newark, N.J.: The Macknet Grate Bar Co., [1896].
Rocking grate for more efficient industrial coal burning.
[Size 1]

Made expressly for Westcott Motor Car Co. by Radel Leather Manufacturing Co.
Newark, N.J.: Radel Leather Manufacturing Co., 1917.
Automobile Spanish Leather.
[Size 4]

Magnolia isotropic die-cast bearing bronze.
Newark, N.J.: Magnolia Metal Company, Inc., [19--].
[Size 2]

Maintenance catalogue and selection guide to air filters for air conditioning, heating & ventilating.
Newark, N.J.: Mercury Filter Corp., [19--].
[Size 2]

Make any wall a thrilling "picture window" with a Foto Mural in natural color.
Newark, N.J.: Damar Products, Inc., 1954.
[Size 2]

Maltbie pharmaceutical products.
Newark, N.J.: The Maltbie Chemical Co., 1933.
Detailed descriptions and prices of pharmaceutical compounds and products.
[Size 1]

Mapes complete manures.
New York, N.Y.: The Mapes Formula and Peruvian Guano Co., 1886.
Works at Newark, N.J., for sale by Thos. Lupton, Matawan, N.J.
[Size 1]

Mercury's free introductory conversion kit offer.
Newark, N.J.: Mercury Filter Corp., [19--].
[Size 2]

The Merrill Shops.
Newark, N.J.: The Merrill Shops, [ca. 1930].
Catalog and prices of pewter.
[Size 1]

FJK000054

Miniature catalogue.
Newark, N.J.: Thomas Kelly, Manufacturer, [between 1890 and 1909].

932110070

Success Stories

View Stories By: State | Center | Highlights | Search

Fiske Brothers Refining Co

Center Name: Ohio Manufacturing Extension Partnership

Client Profile: Fiske Brothers Refining Company manufactures and distributes lubricating grease and oil products for the industrial, automotive, food, beverage and pharmaceutical industries. Its facilities--in Toledo, Ohio and Newark, New Jersey--employ less than 100 people

Situation: Fiske Brothers knows that to stay in business 130 years a business has to be adaptable, responsive, progressive, and well informed. Fiske Brothers opened its doors in 1871 in a world with no automobiles, typewriters or telephones. Today, Fiske is registered in the most progressive quality standards currently accepted in the industry: QS 9000, ISO 9001, and it is pursuing ISO 14001. The company also is implementing lean manufacturing techniques within its operations and exploring eBusiness strategies.

A quality system surveillance audit by Fiske's registrar in 1999 revealed nonconforming procedures in element 4.2, Advanced Product Quality Planning and Control Plans. For assistance correcting the problem, Quality Manager Jacki Dusza contacted the Lake Erie Manufacturing Extension Partnership (LEMEP), a NIST MEP network affiliate, because she was already pleased with the resource center's internal auditor training programs. Fiske Brothers engaged LEMEP to revise and streamline the portion of the plans and processes that had failed the audit.

Solution: LEMEP team members conducted an ISO gap analysis to address the problem. The company applied lean techniques to solve the issue and regain compliance. Over the past few years, Fiske Brothers has worked with LEMEP and its host organization, EISC, Inc., on several projects. The company sent employees for training at EISC, and received hands-on training at its own facility. In mid-2000, Fiske worked with LEMEP on additional ISO/QS 9000 internal auditor training and an ISO 9001:2000 update. In 2001, Fiske Brothers sent teams of associates to LEMEP for Lean 101 and ISO 14001 internal auditor training. LEMEP has also assisted the company in finding ways to reduce energy costs, resulting in significant savings.

Results: Identified steam leaks and repaired boiler system to reduce natural gas costs by $20,000 per year. Decreased monthly energy costs by staggering motor starts throughout the day.
Addressed ISO 14001 gaps to comply with quality standards.
Participated in internal auditor training

Testimonial: *"The Lake Erie Manufacturing Extension Partnership walked us through all aspects of environmental management. It's nearly impossible to put a dollar value on LEMEP's knowledge and background in environmental applications, regulations, and standards."*

Jacki Dusza, Quality Manager

Activity Period: 2001-4

Back
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Page Created/Updated: 10/14/2003
Contact: webmaster@mep.nist.gov

FJK000057

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Advanced Lubricant Technology
For All Industries.

It's the Film ®
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- Air Compressor and Vacuum Pump Oils
- Hydraulic Oils
- Multi-Purpose Greases
- Greases For Special Applications
- Gear, Bearing & Recirculating Oils
- Specialty Lubricants
- Food Machinery Lubricants NSF H-1 Class
- Automotive Lubricants
- Motor Oils
- Metal Working Fluids
- Spray Lubricants, Grease Cartridges and Tubes

ISO
9001
Registered
Quality System

LUBRIPLATE®

Lubrication Data Book

932110074

Contents

Multi-Purpose Synthetic Fluids

4-5 Air Compressor Fluids

6 Hydraulic Oils

7 Multi-Purpose Greases

8 Greases For Special Applications

9 Gear, Bearing & Recirculating Oils

10 Specialty Lubricants

11-13 Food Machinery Lubricants NSF H-1 Class

14 Automotive Lubricants
Motor Oils
Metal Working Fluids

15 Packaging Containers
Spray Lubricants, Grease Cartridges and Tubes

16 General Application Chart
Lubricant Classification Comparison Chart
Lubriplate District Managers

FJK000059

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LUBRIPLATE DIVISION / Fiske Brothers Refining Company

Corporate Headquarters / 129 Lockwood Street / Newark, NJ 07105
PHONE 800-733-4755 / FAX 973-589-4432 / FAX 800-347-5329

Midwest Office & Plant / 1500 Oakdale Ave. / Toledo, OH 43605
PHONE 419-691-2491 / FAX 419-693-3806 / FAX 800-347-5348

www.lubriplate.com or Email us at info@lubriplate.com

932110075

Introduction

To: Our LUBRIPLATE Distributors and Consumers

Ladies and Gentlemen:

Thank you for your interest in LUBRIPLATE Lubricants. For 135 years, our Company has manufactured and sold only the highest quality lubricants to all types of industry. The advent of ISO-9000 has given us the opportunity to prove that "*we practice what we preach.*" As an ISO-9001 registered company, all of our employees have totally committed themselves to developing, manufacturing and selling quality products that meet and exceed your expectations. Our commitment to maintaining ISO-9001 certification provides us with a bright and strong future. We appreciate your consideration of LUBRIPLATE Lubricants. We realize that we must constantly work to earn and maintain your trust.

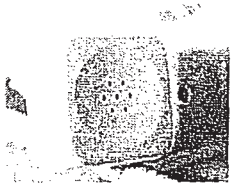
Sincerely,

Richard T. McCluskey

Richard T. McCluskey
President and Chief Executive Officer
e-mail: RichardM@lubriplate.com

ISO 9001 Registered Quality System

Complimentary Value Added Services Offered



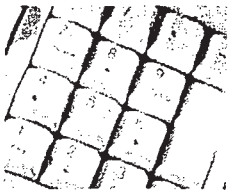
Toll Free Technical Support Hotline:

Call our technical service center toll free at **800-347-5343** for answers to your lubrication questions by phone, or contact your nearest Lubriplate district manager (listed on back cover) or your local distributor representative for complete technical support.

FJK000060

Complete Plant Surveys and Lubricant Inventory Consolidation:

Complete plant surveys by our professional staff of lubrication engineers are also available to determine your exact lubricant requirements and identify opportunities for lubricant inventory consolidation and lubricant application consolidation.

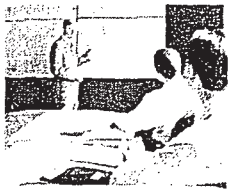


Lubrication Maintenance Software:

Lubriplate offers a PC based computer software program that puts your entire lubrication and maintenance schedules at your fingertips. This service is based on a complete survey of your entire plant. Contact Dan Moroses (Newark office) for details at **973-589-9150**.

No-Charge Oil / Fluid and Grease Analysis:

We encourage the use of our Fluid and Grease Analysis Program that is offered at no-charge on all Lubriplate products. Tests that are performed include: Viscosity, Acidity, Contamination (% sediment and % moisture,) Spectrochemical (PPM of wear metals and additives) ISO Cleaniiness (optional). An interpretation of the results is included along with suggested actions to take.

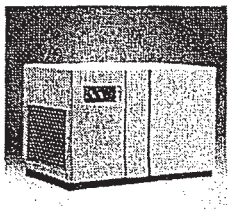


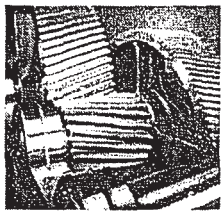
In Plant User Lubrication Training and Distributor Training:

Lubriplate offers training programs tailored to fit your needs. Our lubrication engineering training sessions are not glorified sales meetings. Rather, they discuss all facets of machinery lubrication, lubricants and correct lubricant selection. All seminars are graphically presented with overheads, and other support material. Available on-site at your facility or off-site in a conference room of a local hotel. Contact us at **800-733-4755** to arrange a no charge lubrication seminar.

Multi-Purpose Synthetic Fluids

Syn-Lube Series: Multi-Purpose, Polyalphaolefin (PAO)-Based Synthetic Fluids.





These multi-purpose polyalphaolefin (PAO) based, zinc-free fluids are formulated with state of the art additives. These fluids provide outstanding performance over extended drain intervals. Syn-Lube 22, 32, 46, 68 & 100 are recommended for many types of rotary screw and piston type air compressors, hydraulic systems, blowers, and turbine oil applications. Syn-Lube 150, 220, 320, 460, & 680 are recommended for gearboxes, bearings, chains and recirculating systems.

LUBRIPLATE PRODUCT	*PRODUCT PART NO.	ISO GRADE	SAE NO.	SAE GEAR OIL NO.	VIS. cSt @40°C/100°C	VIS. SUS 100°F/210°F	VIS. INDEX	FLASH POINT	FIRE POINT	AUTO-IGNITION TEMPERATURE	POUR POINT
SYN LUBE 22	L0968-	22	5W	-	23 / 5	129 / 44	138	420°F / 216°C	470°F / 243°C	>700°F / 371°C	-70°F / -57°C
SYN LUBE 32	L0970-	32	10	-	32 / 6	160 / 47	136	470°F / 243°C	505°F / 263°C	>700°F / 371°C	-70°F / -57°C
SYN LUBE 46	L0971-	46	20	75W	44 / 8	223 / 52	138	485°F / 250°C	550°F / 288°C	>700°F / 371°C	-65°F / -54°C
SYN LUBE 68	L0972-	68	20	80W	66 / 10	314 / 58	138	515°F / 267°C	580°F / 304°C	>700°F / 371°C	-60°F / -51°C
SYN LUBE 100	L0973-	100	30	85W	110 / 15	523 / 66	142	530°F / 277°C	590°F / 310°C	>700°F / 371°C	-55°F / -48°C
SYN LUBE 150	L0974-	150	40	80W-90	162 / 21	816 / -	154	540°F / 282°C	590°F / 310°C	-	-60°F / -51°C
SYN LUBE 220	L0975-	220	50	90	199 / 25	988 / -	154	540°F / 282°C	580°F / 304°C	-	-55°F / -48°C
SYN LUBE 320	L0976-	320	60	80W-140	310 / 35	1545 / -	157	540°F / 282°C	585°F / 307°C	-	-50°F / -46°C
SYN LUBE 460	L0977-	460	70	140	440 / 47	2191 / -	164	550°F / 288°C	585°F / 307°C	-	-50°F / -46°C
SYN LUBE 680	L0978-	680	-	-	705 / 68	3384 / -	170	555°F / 291°C	580°F / 304°C	-	-45°F / -43°C

*Syn Lube 22 through 100 is available in Pails & Drums. Syn Lube 150 through 680 is available in Jugs, Pails, 1/4 Drums & Drums. See page 15 for package part number suffix.

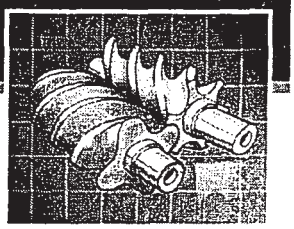
Synthetic High Temp Fluids 68 and 220: 100% Ester-Based Fluids.

These 100% ester based synthetic lubricants are recommended for use on bakery oven chains, drying oven chains, tenter frame chains, heat treating chains, paint curing oven chains and any other type of bearing/slide/gearbox applications where they are exposed to high operating temperatures and must maintain a clean lubricated surface. Available in ISO viscosity grades 68 and 220. Proven successful in applications in excess of 600°F / 316°C.

LUBRIPLATE PRODUCT	*PRODUCT PART NO.	ISO GRADE	SAE NO.	VIS. cSt @40°C/100°C	VIS. SUS @100°F/210°F	VIS. INDEX	FLASH POINT	FIRE POINT	POUR POINT
SYN High Temp 68	L0778-	68	20	74 / 11	364 / 58	109	554°F / 290°C	640°F / 338°C	-25°F / -32°C
SYN High Temp 220	L0780-	220	90	220 / 19	1112 / 102	92	525°F / 274°C	580°F / 304°C	-5°F / -21°C

*SYN High Temp 68 & 220 is available in Pails & Drums. See page 15 for more information and package part number suffix.

Synthetic Air Compressor Fluids



Syncool Series: Polyglycolester-Based Synthetic Compressor Fluids.

These polyglycolester-based, synthetic fluids are designed for rotary screw air compressors. They offer excellent heat transfer properties, low evaporation, high flash points, and outstanding oxidation resistance, eliminating varnish and sludge. Fluid change intervals are 8,000 hours under normal operating conditions.

LUBRIPLATE PRODUCT	*PRODUCT PART NO.	ISO GRADE	SAE NO.	VIS. cSt @40°C/100°C	VIS. SUS @100°F/210°F	VIS. INDEX	FLASH POINT	FIRE POINT	POUR POINT
SYNCOOL 32	L0965-	32	10	30 / 6	165 / 34	156	485°F / 252°C	550°F / 288°C	-60°F / -51°C
SYNCOOL 46	L0966-	46	20	47 / 9	232 / 55	180	470°F / 243°C	555°F / 290°C	-50°F / -46°C

*Syncool Series Fluids are available in Pails & Drums. See page 15 for more information and package part number suffix.

Synac Series: Diester-Based Synthetic Compressor Fluids

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These diester-based synthetic air compressor fluids are outstanding for applications where the fluid is subjected to high temperature and high stress conditions over extended drain intervals. Call our technical service line at 800-347-5343, for fluid and seal compatibility data and conversion procedures.

LUBRIPLATE PRODUCT	*PRODUCT PART NO.	ISO GRADE	SAE NO.	VIS. cSt @40°C/100°C	VIS. SUS @100°F/210°F	VIS. INDEX	FLASH POINT	FIRE POINT	POUR POINT
SYNAC 32	L0932-	32	10	31 / 6	155 / 46	135	450°F / 232°C	530°F / 277°C	-45°F / -43°C
SYNAC 46	L0933-	46	20	44 / 7	213 / 49	118	455°F / 235°C	535°F / 279°C	-35°F / -37°C
SYNAC 68	L0934-	68	20	64 / 8	311 / 53	98	455°F / 235°C	535°F / 279°C	-20°F / -29°C
SYNAC 100	L0935-	100	30	100 / 10	510 / 60	76	450°F / 232°C	530°F / 277°C	-15°F / -26°C
SYNAC 150	L0936-	150	40	147 / 13	754 / 71	71	540°F / 282°C	570°F / 299°C	-25°F / -32°C
SYNAC 220	L0937-	220	-	201 / 16	1003 / 83	74	545°F / 285°C	575°F / 302°C	-20°F / -29°C
SYNAC 320	L0938-	320	-	290 / 20	1496 / 99	77	475°F / 246°C	505°F / 263°C	-5°F / -20°C

*Synac Series Fluids are available in Pails & Drums. See page 15 for more information and package part number suffix.

AGMA-American Gear Manufacturers Association • ISO-International Standards Organization

932110077

Petroleum-Based Air Compressor Oils

AC Series: Petroleum-Based, Anti-Wear Fortified Compressor Oils.

These petroleum-based air compressor oils are especially formulated to reduce carbon and varnish buildup. These oils contain fluid zinc to effectively fight friction and wear thus reducing heat and foaming. Available in six ISO grades.

LUBRIPLATE PRODUCT	*PRODUCT PART NO.	ISO GRADE	SAE NO.	VIS. cSt @40°C/100°C	VIS. SUS @100°F/210°F	VIS. INDEX	FLASH POINT	FIRE POINT	POUR POINT
AC-0	L0704-	32	10	31 / 6	160 / 46	136	415°F / 213°C	440°F / 227°C	-30°F / -34°C
AC-1	L0705-	46	20	42 / 7	213 / 49	120	420°F / 216°C	450°F / 232°C	-25°F / -32°C
AC-2	L0706-	68	20	64 / 8	309 / 54	106	430°F / 221°C	465°F / 241°C	-20°F / -29°C
AC-2A	L0707-	100	30	99 / 12	518 / 66	104	445°F / 229°C	480°F / 249°C	-15°F / -26°C
AC-3	L0708-	150	40	135 / 14	690 / 75	102	460°F / 238°C	510°F / 266°C	-10°F / -23°C
AC-4	L0710-	220	40	162 / 16	840 / 83	101	470°F / 243°C	525°F / 274°C	0°F / -18°C

*AC Series Air Compressor Oils are available in Bottles, Jugs, Pails, 1/4 Drums & Drums. See page 15 for more information and package part number suffix.

Turbine Oil 32: Petroleum-Based Oil For Centrifugal Air Compressors.

This high-performance, zinc-free fluid meets the requirements of most centrifugal air compressors. Provides excellent oxidation resistance.

LUBRIPLATE PRODUCT	*PRODUCT PART NO.	ISO GRADE	SAE NO.	VIS. cSt @40°C/100°C	VIS. SUS @100°F/210°F	VIS. INDEX	FLASH POINT	FIRE POINT	POUR POINT
Turbine Oil 32	L0942-	32	10	32 / 5	152 / 44	113	390°F / 199°C	440°F / 227°C	-10°F / -23°C

*Turbine Oil 32 is available in Drums. See page 15 for more information and the package part number suffix.

Refrigeration Compressor Oils: 68-N (Naphthenic) & 68-P (Semi-Synthetic):

These highly refined lubricants are formulated for use in refrigeration compressor systems utilizing ammonia, CFC (chlorofluorocarbon) and HCFC (hydrochlorofluorocarbon) refrigerants such as R-717, R-11, R-12, R-13, R-113, R-114, R-115, R-22, R-123, R-141b, R-142b, R-500, R-501 and R-502. They are not recommended for use with HFC (hydroflurocarbon) refrigerants such as HFC-134a (R-134a).

LUBRIPLATE PRODUCT	*PRODUCT PART NO.	ISO GRADE	SAE NO.	VIS. cSt @40°C/100°C	VIS. SUS @100°F/210°F	VIS. INDEX	FLASH POINT	FIRE POINT	POUR POINT
68-N	L0842-	68	20	65 / 7	330 / 48	28	385°F / 196°C	435°F / 224°C	-35°F / -37°C
68-P	L0843-	68	20	63 / 9	315 / 42	106	468°F / 242°C	510°F / 266°C	-38°F / -39°C

*Refrigeration Compressor Oils 68N & 68P are available in Pails & Drums. See page 15 for more information and the package part number suffix.

RCO-68: NSF H-1 Registered, Food Grade, Refrigeration Compressor Fluid. See page 11 for information on this product.

Heavy-Duty Hydraulic Oils

HO Series: Petroleum-Based, Heavy-Duty Hydraulic Oils.

Formulated for superior performance, this series contains fluid zinc to effectively reduce ring and vane wear. Excellent anti-rust, anti-corrosion, anti-foam and anti-oxidation properties. High aniline points ensure long seal life with fewer leaks. They can withstand elevated temperatures and high pressures over extended drain intervals. High natural V.I. provides stable viscosities over a wide temperature range. Excellent ISO cleanliness ratings.

LUBRIPLATE PRODUCT	*PRODUCT PART NO.	ISO VIS. GRADE	AGMA NO.	SAE GEAR OIL NO.	SAE NO.	VIS. cSt @40°C/100°C	VIS. SUS @100°F/210°F	VIS. INDEX	FLASH POINT	FIRE POINT	POUR POINT
HO-0	L0760-	32	-	-	10	31 / 6	160 / 46	136	415°F / 213°C	440°F / 227°C	-30°F / -34°C
HO-1	L0761-	46	1	75	20	42 / 7	213 / 49	120	420°F / 216°C	450°F / 232°C	-25°F / -32°C
HO-2	L0762-	68	2	80	20	64 / 8	309 / 54	106	430°F / 221°C	465°F / 241°C	-20°F / -29°C
HO-2A	L0763-	100	3	80	30	99 / 12	518 / 66	104	445°F / 229°C	480°F / 249°C	-15°F / -26°C
HO-3	L0764-	150	4	85	40	135 / 14	690 / 75	102	460°F / 238°C	510°F / 266°C	-10°F / 23°C
HO-4	L0765-	150	5	90	40	162 / 16	840 / 83	101	470°F / 243°C	525°F / 274°C	0°F / -18°C
HO-5	L0766-	320	6	90	60	281 / 22	1510 / 111	96	480°F / 249°C	565°F / 296°C	10°F / -12°C

*HO Series Oils are available in Jugs, Pails, 1/4 Drums & Drums. See page 15 for more information and the package part number suffix.

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Low Temp Hydraulic Oils: Petroleum-Based Oils For Low Temperature Applications.

LOW TEMPERATURE HYDRAULIC OILS: MV-HO Multi-Viscosity, Special Low Pour, and Minus 70 Hydraulic Oil are for low temperature applications.

LUBRIPLATE PRODUCT	*PRODUCT PART NO.	ISO VIS. GRADE	AGMA NO.	SAE GEAR OIL NO.	SAE NO.	VIS. cSt @40°C/100°C	VIS. SUS @100°F/210°F	VIS. INDEX	FLASH POINT	FIRE POINT	POUR POINT
MV-HO	L0777-	32	-	75	5W-20	35 / 8	186 / 53	199	350°F / 177°C	380°F / 193°C	-50°F / -46°C
Low Pour	L0767-	22	-	75W	5W-20	25 / 7	126 / 46	210	315°F / 157°C	350°F / 177°C	-70°F / -57°C
Minus 70	L0769-	15	-	75W	5W-20	16 / 6	84 / 45	340	200°F / 93°C	220°F / 104°C	-70°F / -57°C

*Low Temp Hydraulic Oils are available in Jugs, Pails, 1/4 Drums & Drums. See page 15 for more information and the package part number suffix.

AGMA American Gear Manufacturers Association, ISO International Standards Organization

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SYNXTREME HD-2: High Performance, Synthetic, Calcium Sulfonate Complex Grease.

A high performance, multi-purpose, synthetic, calcium sulfonate complex grease. Delivers outstanding shear stability, excellent anti-wear (AW) and extreme pressure protection. Highly water resistant. Superior oxidation resistance for long lasting protection. Excellent high and low temperature performance.

LUBRIPLATE PRODUCT	*PRODUCT PART NO.	NLGI GRADE	OIL VIS. cSt / SUS @40°C / 100°F	WORKED PENETRATION	ASTM DROP POINT	APPROX. COLD TEST	AW/EP	RUST/OXID. ADDITIVES	WATER RESISTANT	APPLICATIONS / COMMENTS
SYNX HD-2	L0401-	2	100 / 500	265 / 295	700°F / 371°C	-40°F / -40°C	AW/EP	YES	YES	Heavy-duty general-purpose grease.

*SYNXTREME HD-2 is available in Cartidges, Pails, 1/4 Drums & Drums. See page 15 for package part number suffix.

SYN-1600 Series: High Performance, Polyalphaolefin (PAO)-Based Synthetic Greases.

Manufactured with 100% polyalphaolefin (PAO) base fluids and thickened with lithium-complex, for superior oxidation stability, better wear protection and significantly better operating temperature ranges. Fortified with additives to prevent rust and corrosion and to reduce grease bleed.

LUBRIPLATE PRODUCT	*PRODUCT PART NO.	NLGI GRADE	OIL VIS. cSt / SUS @40°C / 100°F	WORKED PENETRATION	ASTM DROP POINT	APPROX. COLD TEST	AW/EP	RUST/OXID. ADDITIVES	WATER RESISTANT	APPLICATIONS / COMMENTS
SYN-1600	L0300-	0	218 / 1009	355 / 385	500°F / 260°C	-50°F / -46°C	AW/EP	YES	YES	Centralized greasing systems.
SYN-1601	L0301-	1	218 / 1009	310 / 340	500°F / 260°C	-50°F / -56°C	AW/EP	YES	YES	Multi-purpose, industrial applications.
SYN-1602	L0302-	2	446 / 2066	265 / 295	500°F / 260°C	-45°F / -43°C	AW/EP	YES	YES	Multi-purpose, heavy-duty applications.

*SYN-1600 Series Greases are available in Pails, 1/4 Drums & Drums, SYN-1601 & SYN-1602 are also available in Cartridges. See page 15 for package part number suffix.

1500 Series: Lithium Complex Greases.

These multi-purpose lubricants can withstand higher temperatures than traditional lithium greases. They provide high film strength, excellent shear stability, long lubricant life, and exceptional anti-wear properties. Available in four NLGI densities for a variety of applications. No. 1552 is NLGI GC-LB certified.

LUBRIPLATE PRODUCT	*PRODUCT PART NO.	NLGI GRADE	OIL VIS. cSt / SUS @40°C / 100°F	WORKED PENETRATION	ASTM DROP POINT	APPROX. COLD TEST	AW/EP	RUST/OXID. ADDITIVES	WATER RESISTANT	APPLICATIONS / COMMENTS
1500	L0163-	00	200 / 1100	400 / 430	-	-10°F / -23°C	AW/EP	YES	YES	Leaky Gear Cases. Trailer wheel bearings.
1550	L0164-	0	200 / 1100	355 / 385	450°F / 232°C	-10°F / -23°C	AW/EP	YES	YES	Centralized greasing systems.
1551	L0165-	1	200 / 1100	310 / 340	470°F / 243°C	-5°F / -21°C	AW/EP	YES	YES	Ind./const./mining equip.
1552	L0166-	2	200 / 1100	265 / 295	>500°F / 260°C	0°F / -18°C	AW/EP	YES	YES	Ind./const./mining equip., adverse conditions.

*1500 Series Greases are available in Pails, 1/4 Drums & Drums, No. 1551 & No. 1552 are also available in Cartridges. See page 15 for package part number suffix.

No. 1200-2: Heavy-Duty, General Purpose, Lithium Type Grease.

This is an excellent, heavy-duty, general purpose, lithium type grease for both industrial and automotive applications. It provides a high film strength, great shear stability, anti-wear and extreme pressure additives.

LUBRIPLATE PRODUCT	*PRODUCT PART NO.	NLGI GRADE	OIL VIS. cSt / SUS @40°C / 100°F	WORKED PENETRATION	ASTM DROP POINT	APPROX. COLD TEST	AW/EP	RUST/OXID. ADDITIVES	WATER RESISTANT	APPLICATIONS / COMMENTS
1200-2	L0102-	2	183 / 950	265 / 295	400°F / 204°C	-25°F / -32°C	AW/EP	YES	YES	General-purpose grease.

*1200-2 is available in Cartidges, Cans, Pails, 1/4 Drums & Drums. See page 15 for package part number suffix.

1240 Series: Lithium-Polymer Type, Viscous, Non-corrosive, Extreme Pressure Greases.

Highly water resistant and tacky, they are designed for applications where the grease is subjected to heavy pressure and shock loads. This series is available in 3 NLGI densities for a wide range of applications and temperatures.

LUBRIPLATE PRODUCT	*PRODUCT PART NO.	NLGI GRADE	OIL VIS. cSt / SUS @40°C / 100°F	WORKED PENETRATION	ASTM DROP POINT	APPROX. COLD TEST	AW/EP	RUST/OXID. ADDITIVES	WATER RESISTANT	APPLICATIONS / COMMENTS
1240	L0105-	0	237 / 1250	355 / 385	400°F / 204°C	0°F / -18°C	AW/EP	YES	YES	Centralized systems, const. industrial equip.
1241	L0104-	1	237 / 1250	310 / 340	400°F / 204°C	5°F / -15°C	AW/EP	YES	YES	Centralized or hand greasing.
1242	L0106-	2	237 / 1250	265 / 295	425°F / 218°C	15°F / -9°C	AW/EP	YES	YES	Heavy-duty construction equipment.

*1240 Series Greases are available in Cartidges, Cans, Pails, 1/4 Drums & Drums. See page 15 for package part number suffix.

No. 1444: Tacky, Aluminum Complex Type Grease.

Specifically formulated for heavy-duty construction and mining equipment. Excellent for slow to moderate speed bearings and chains that are subjected to heat, steam and water. NLGI GC-LB certified.

LUBRIPLATE PRODUCT	*PRODUCT PART NO.	NLGI GRADE	OIL VIS. cSt / SUS @40°C / 100°F	WORKED PENETRATION	ASTM DROP POINT	APPROX. COLD TEST	AW/EP	RUST/OXID. ADDITIVES	WATER RESISTANT	APPLICATIONS / COMMENTS
1444	L0227-	2	626 / 3300	265 / 295	500°F / 260°C	10°F / -12°C	AW/EP	YES	YES	Heavy-duty construction, mining equip.

*No. 1444 is available in Cartridges, Pails, 1/4 Drums & Drums. See page 15 for package part number suffix.

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No. 3000 and 3000-W: Tacky, Moly-Lithium Type, Extreme Pressure Greases.

Provides a durable, tenacious, adhesive film to protect against water, rust, and corrosive contaminants. 3000-W is for cold ambient temperatures.

LUBRIPLATE PRODUCT	*PRODUCT PART NO.	NLGI GRADE	OIL VIS. cSt / SUS @40°C / 100°F	WORKED PENETRATION	ASTM DROP POINT	APPROX. COLD TEST	AW/EP	RUST/OXID. ADDITIVES	WATER RESISTANT	APPLICATIONS / COMMENTS
3000	L0108-	2	237 / 1250	265 / 295	450°F / 232°C	0°F / -18°C	AW/EP	YES	YES	Heavy-duty, Construction/ mining equip.
3000-W	L0107-	1	60 / 315	310 / 340	375°F / 191°C	-30°F / -34°C	AW/EP	YES	YES	Heavy-duty equip. Cold weather conditions.

*3000 Series Greases are available in Cartidges, Cans, Pails, 1/4 Drums & Drums See page 15 for package part number suffix.

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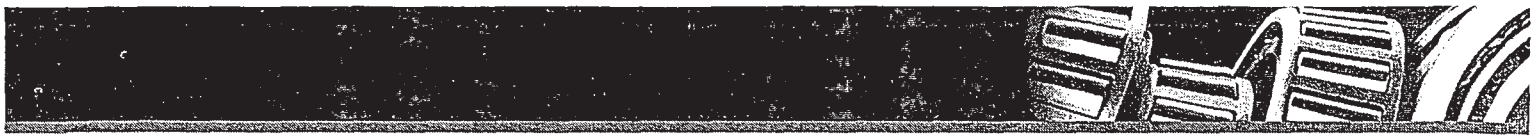

630 Series: Lithium Based Multi-purpose Greases.

These popular lithium type, greases are excellent for a wide range of lubrication demands, thus reducing the need to carry large grease inventories. All have high film strength, exceptional resistance to water, steam, and other adverse conditions. Available in 4 NLGI densities for a variety of applications.

LUBRIPLATE PRODUCT	*PRODUCT PART NO.	NLGI GRADE	OIL VIS. cSt/SUS @40°C/100°F	WORKED PENETRATION	ASTM DROP POINT	APPROX. COLD TEST	AW/EP	RUST/OXID. ADDITIVES	WATER RESISTANT	APPLICATIONS / COMMENTS
630-AAA	L0068-	0	151 / 800	355 / 385	360°F / 182°C	-10°F / -23°C	AW/EP	YES	YES	Centralized greasing systems.
630-AA	L0067-	1	135 / 750	310 / 340	380°F / 193°C	0°F / -18°C	AW/EP	YES	YES	Automatic dispensers,Centralized systems.
630-2	L0072-	2	135 / 750	265 / 295	380°F / 193°C	0°F / -18°C	AW/EP	YES	YES	Multi-purpose, general greasing, bearings.
630-A	L0066-	2.5	135 / 750	235 / 260	390°F / 199°C	10°F / -12°C	AW/EP	YES	YES	Cup type lube, water pumps

*630 Series Greases are available in Cartidges, Tubes, Cans, Pails, 1/4 Drums & Drums. See page 15 for package part number suffix.

730 Series: High Performance, Aluminum Complex Type Greases.

This series provides high load carrying ability and anti-wear protection with high resistance to water, steam, and other corrosive action. Available in 3 NLGI densities for a wide range of applications and temperatures. No. 730-2 is NLGI GC-LB certified.

LUBRIPLATE PRODUCT	*PRODUCT PART NO.	NLGI GRADE	OIL VIS. cSt/SUS @40°C/100°F	WORKED PENETRATION	ASTM DROP POINT	APPROX. COLD TEST	AW/EP	RUST/OXID. ADDITIVES	WATER RESISTANT	APPLICATIONS / COMMENTS
730-0	L0083-	0	151 / 800	355 / 385	465°F / 241°C	-10°F / -23°C	AW/EP	YES	YES	Centralized systems adverse conditions.
730-1	L0084-	1	151 / 800	310 / 340	540°F / 282°C	-10°F / -23°C	AW/EP	YES	YES	Industrial / const. equip. adverse conditions.
730-2	L0085-	2	151 / 800	265 / 295	560°F / 293°C	-10°F / -23°C	AW/EP	YES	YES	Industrial / const. equip. adverse conditions.

*730 Series Greases are available in Cans, Pails, 1/4 Drums & Drums, No. 730-2 is also available in Cartridges. See page 15 for package part number suffix.

930 Series: High Temperature, Bentone Type Greases.

Formulated for higher temperature applications. They are shear stable, multi-purpose greases for both plain and anti-friction bearings. This series works well up to 375°F / 191°C and for short intervals up to 400°F / 204°C Available in 4 NLGI densities for a wide range of applications.

LUBRIPLATE PRODUCT	*PRODUCT PART NO.	NLGI GRADE	OIL VIS. cSt/SUS @40°C/100°F	WORKED PENETRATION	ASTM DROP POINT	APPROX. COLD TEST	AW/EP	RUST/OXID. ADDITIVES	WATER RESISTANT	APPLICATIONS / COMMENTS
930-AAA	L0098-	0	167 / 900	355 / 385	NON-MELT	-10°F / -23°C	AW/EP	YES	YES	Centralized, enclosed gears, no seals.
930-AA	L0096-	1	135 / 750	310 / 340	NON-MELT	0°F / -18°C	AW/EP	YES	YES	High temperatures, automatic dispensers.
930-2	L0100-	2	135 / 750	265 / 295	NON-MELT	10°F / -12°C	AW/EP	YES	YES	Multi-purpose, high temperatures.
930-A	L0095-	2.5	135 / 750	235 / 260	NON-MELT	20°F / -7°C	AW/EP	YES	YES	High temperatures, grease cups.

*930 Series Greases are available in Cartidges, Tubes, Cans, Pails, 1/4 Drums & Drums. See page 15 for package part number suffix.

100 & 130 Series: Calcium Type Greases.

These water resistant greases are designed for plain bearings, cams, slides, and other light-duty applications where temperatures do not exceed 170°F. / 77°C.

LUBRIPLATE PRODUCT	*PRODUCT PART NO.	NLGI GRADE	OIL VIS. cSt/SUS @40°C/100°F	WORKED PENETRATION	ASTM DROP POINT	APPROX. COLD TEST	AW/EP	RUST/OXID. ADDITIVES	WATER RESISTANT	APPLICATIONS / COMMENTS
105	L0034-	0	58 / 300	355 / 385	170°F / 77°C	-30°F / -34°C	AW	YES	YES	Cams, slides, motor assembly.
107	L0036-	1	58 / 300	310 / 340	180°F / 82°C	-10°F / -23°C	AW	YES	YES	Non-staining concrete form release.
110	L0037-	2.5	58 / 300	235 / 260	190°F / 88°C	-10°F / -23°C	AW	YES	YES	Brake lubricant. Not for disc brakes.
115	L0040-	4	58 / 300	185 / 215	210°F / 99°C	10°F / -12°C	AW	YES	YES	Water pump lubricant.
130-AA	L0044-	1	135 / 750	310 / 340	190°F / 88°C	10°F / -12°C	AW/EP	YES	YES	Plain Bearings, chassis lube.
130-A	L0043-	2.5	135 / 750	235 / 260	200°F / 93°C	20°F / -7°C	AW/EP	YES	YES	Cams, guides, open gears.

*100 & 130 Series Greases are available in Tubes, Cans, Pails, 1/4 Drums & Drums. See page 15 for package part number suffix.

Multi-Purpose Greases For Special Conditions

High Temp: Multi-Purpose, High Temperature, Bentone Type Grease.

Multi-Purpose, for high temperature applications. Non-melt type, workable from 40°F / 4°C to 500°F / 260°C with frequent lube intervals.

LUBRIPLATE PRODUCT	*PRODUCT PART NO.	NLGI GRADE	OIL VIS. cSt/SUS @40°C/100°F	WORKED PENETRATION	ASTM DROP POINT	APPROX. COLD TEST	AW/EP	RUST/OXID. ADDITIVES	WATER RESISTANT	APPLICATIONS / COMMENTS
HIGH TEMP	L0161-	2	497 / 2600	265 / 295	NON-MELT	10°F / -12°C	AW	YES	YES	Multi-Purpose, high temp. applications

*HIGH TEMP is available in Cartidges, Cans, Pails, 1/4 Drums & Drums. See page 15 for package part number suffix.

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Low Temp: Multi-Purpose, Anhydrous Calcium Based Grease For Cold Temperatures.

Excellent multi-purpose low temperature grease. For cold temperature applications down to -60°F / -51°C.

LUBRIPLATE PRODUCT	*PRODUCT PART NO.	NLGI GRADE	OIL VIS. cSt/SUS @40°C/100°F	WORKED PENETRATION	ASTM DROP POINT	APPROX. COLD TEST	AW/EP	RUST/OXID. ADDITIVES	WATER RESISTANT	APPLICATIONS / COMMENTS
LOW TEMP	L0172-	1.5	16 / 90	290 / 320	280°F / 138°C	-60°F / -51°C	AW	YES	YES	Cold temps., multi-purpose, fifth wheels.

*LOW TEMP is available in Cartidges, Tubes, Cans, Pails, 1/4 Drums & Drums. See page 15 for package part number suffix.

NLGI - National Lubricating Grease Institute ASTM - American Society of Testing & Materials AW - Anti-Wear EP - Extreme Pressure

932110080

Greases For Special Applications / Conditions

MAG-1 & MAG-00: Lithium Polymer Type Greases For Wide Range Of Temperatures.

These multi-purpose, lithium polymer greases have a wide operating temperature range for variety of applications from -60°F / -51°C up to 300°F / 149°C.

LUBRIPLATE PRODUCT	*PRODUCT PART NO.	NLGI GRADE	OIL VIS. cSt / SUS @40°C / 100°F	WORKED PENETRATION	ASTM DROP POINT	APPROX. COLD TEST	AW/EP	RUST/OXID. ADDITIVES	WATER RESISTANT	APPLICATIONS / COMMENTS
MAG-1	L0189-	1	23 / 120	310/340	375°F / 191°C	-60°F / -51°C	AW/EP	YES	YES	Cold & wide temp. range, multi-purpose.
MAG-00	L0186-	00	23 / 120	SEMI-FLUID	340°F / 171°C	-60°F / -51°C	AW/EP	YES	YES	Centralized systems, leaking gearboxes.

*MAG-1 is available in Cartidges, Cans, Pails, 1/4 Drums & Drums. MAG-00 is available in Bottles, Jugs. Pails, 1/4 Drums & Drums. See page 15 for package part number suffix.

Aero: Lithium Based, Low Temperature Grease.

For cold temperature applications down to -60°F. / -51°C. Provides low-torque start-up capability, excellent corrosion and oxidation resistance and wide compatibility with metals, plastic, and rubber. Excellent for garage door mechanisms.

LUBRIPLATE PRODUCT	*PRODUCT PART NO.	NLGI GRADE	OIL VIS. cSt / SUS @40°C / 100°F	WORKED PENETRATION	ASTM DROP POINT	APPROX. COLD TEST	AW/EP	RUST/OXID. ADDITIVES	WATER RESISTANT	APPLICATIONS / COMMENTS
AERO	L0113-	1	19 / 100	310 / 340	350°F / 177°C	-60°F / -51°C	AW	YES	YES	Cold temps., trailer landing gears, garages.

*AERO is available in Tubes, Cans, Pails, 1/4 Drums, & Drums. See page 15 for package part number suffix.

No. 5555: Anhydrous Calcium, Semi-Fluid Type Lubricant.

This semi-fluid type lubricant is made for automatic lubricating systems operating in cold environments.

LUBRIPLATE PRODUCT	*PRODUCT PART NO.	NLGI GRADE	OIL VIS. cSt / SUS @40°C / 100°F	WORKED PENETRATION	ASTM DROP POINT	APPROX. COLD TEST	AW/EP	RUST/OXID. ADDITIVES	WATER RESISTANT	APPLICATIONS / COMMENTS
5555	L0109-	000	16 / 90	SEMI-FLUID	315°F / 157°C	-60°F / -51°C	AW	YES	YES	Automatic lube systems, light oil, cold temps.

*No. 5555 is available in Bottles, Jugs, Pails. 1/4 Drums, & Drums. See page 15 for package part number suffix.

EMB: Lithium Polymer Type, High Speed Electric Motor Bearing Grease.

Developed specifically for the lubrication of electric motor bearings, fans and other high speed grease type ball and roller bearings.

LUBRIPLATE PRODUCT	*PRODUCT PART NO.	NLGI GRADE	OIL VIS. cSt / SUS @40°C / 100°F	WORKED PENETRATION	ASTM DROP POINT	APPROX. COLD TEST	AW/EP	RUST/OXID. ADDITIVES	WATER RESISTANT	APPLICATIONS / COMMENTS
EMB	L0148-	2	100 / 500	265 / 295	390°F / 199°C	-20°F / -29°C	AW/EP	YES	YES	Electric motor bearings, fans, air handlers.

*EMB is available in Cartridges. Cans, Pails, 1/4 Drums & Drums. See page 15 for package part number suffix.

Poly HP-2: Polyurea-Thickened Type Grease.

Formulated with the highest quality paraffinic base oils available. Excellent for high-speed electric motor bearings and other industrial applications.

LUBRIPLATE PRODUCT	*PRODUCT PART NO.	NLGI GRADE	OIL VIS. cSt / SUS @40°C / 100°F	WORKED PENETRATION	ASTM DROP POINT	APPROX. COLD TEST	AW/EP	RUST/OXID. ADDITIVES	WATER RESISTANT	APPLICATIONS / COMMENTS
Poly HP-2	L0191-	2	128 / 650	265 / 295	500°F / 260°C	-	AW	YES	YES	Electric motor bearings.

*Poly HP-2 is available in Cartridges, Pails & 1/4 Drums. See page 15 for package part number suffix.

Greases For Open Gearing

Gear Shield Series: Lithium Based, Open Gear Grease.

Made for all types of open gears. Available in 4 formulas for a variety of conditions and temperatures. Gear Shield Extra Heavy is for adverse conditions.

LUBRIPLATE PRODUCT	*PRODUCT PART NO.	NLGI GRADE	OIL VIS. cSt / SUS @40°C / 100°F	WORKED PENETRATION	ASTM DROP POINT	APPROX. COLD TEST	AW/EP	RUST/OXID. ADDITIVES	WATER RESISTANT	APPLICATIONS / COMMENTS
Gear Shield	L0150-	1	237 / 1250	310 / 340	350°F / 177°C	-20°F / -29°C	AW	YES	YES	Open gears, normal conditions.
G.S. Heavy	L0151-	2	432 / 2000	265 / 295	365°F / 185°C	10°F / -12°C	AW	YES	YES	Open gears, normal conditions.
G.S. Low Temp	L0173-	2	58 / 300	265 / 295	400°F / 204°C	-20°F / -29°C	AW	YES	YES	Open gears, slides, fifth wheels, low temps.
G.S. X-Heavy	L0152-	2.5	432 / 2000	235 / 260	370°F / 188°C	20°F / -7°C	AW	YES	YES	Open gears, adverse conditions.

*Gear Shield Series Greases are available in Cans, Pails, 1/4 Drums & Drums. Gear Shield X-Heavy also available in Aerosol and Caulk Type Cartridges. See page 15 for package part number suffix.

FJK000065

No. 176: Inorganic / Organic, Open Gear Grease for Centralized Systems. No Solvents.

This adhesive, semi-fluid grease is for all types of open gears lubricated by centralized systems. Provides good pumpability without the use of harmful solvents.

LUBRIPLATE PRODUCT	*PRODUCT PART NO.	NLGI GRADE	OIL VIS. cSt / SUS @40°C / 100°F	WORKED PENETRATION	ASTM DROP POINT	APPROX. COLD TEST	AW/EP	RUST/OXID. ADDITIVES	WATER RESISTANT	APPLICATIONS / COMMENTS
No. 176	L0054-	00	313 / 1650	400 / 430	NON-MELT	5°F / -15°C	AW/EP	YES	YES	Open gears lubricated centralized systems.

*No. 176 is available in Pails, 1/4 Drums & Drums. See page 15 for package part number suffix.

NLGI - National Lubricating Grease Institute. ASTM - American Society of Testing & Materials. AW - Anti-Wear EP - Extreme Pressure

932110081

Petroleum Based, Gear, Bearing & Recirculating Oils

SPO Series: Extra-Duty Anti-Wear, Rust & Oxidation Inhibited (R&O) Gear and Bearing Oils.

SPO series of petroleum based oils is specifically designed for industrial applications such as gear cases, bearings, chains, machine ways, and general oiling. These tacky lubricants will provide anti-wear lubrication for high sliding action in worm gears. They are also excellent for bevel, helical, and spur gears. SPO Lubes can be used with silver alloy, copper, and copper alloy bearings. Excellent for use in high moisture and high temperature applications. Provides performance comparable to synthetic lubricants.

SPO-MG is a semi-synthetic lubricant formulated with a unique blend of synthetic hydrocarbon and mineral oil base stocks. This base stock combination results in exceptional thermal and oxidation stability, extended drain intervals and improved perfomance. Meets the viscosity requirements of SAE 80W and SAE 140 gear oils.

LUBRIPLATE PRODUCT	*PRODUCT PART NO.	ISO VIS. GRADE	AGMA NO.	SAE GEAR OIL NO.	SAE NO.	VIS. cSt @40°C/100°C	VIS. SUS @100°F/210°F	VIS. INDEX	FLASH POINT	FIRE POINT	POUR POINT
SPO-222	L0242-	68	2	80W	20W	63 / 9	317 / 55	109	415°F / 213°C	465°F / 241°C	-30°F / -34°C
SPO-233	L0243-	100	3	80W	30	91 / 11	464 / 63	103	450°F / 232°C	500°F / 260°C	-35°F / -37°C
SPO-244	L0244-	150	4	90	40	135 / 14	685 / 75	102	460°F / 238°C	525°F / 274°C	-25°F / -32°C
SPO-255	L0245-	220	5	90	50	200 / 19	1044 / 95	103	465°F / 241°C	560°F / 293°C	-10°F / -23°C
SPO-266	L0246-	320	6	90	60	280 / 23	1476 / 115	102	470°F / 243°C	570°F / 299°C	10°F / -12°C
SPO-277	L0247-	460	7	140	70	432 / 30	2260 / 148	101	475°F / 246°C	580°F / 304°C	15°F / -9°C
SPO-288	L0248-	680	8	250	-	628 / 38	3314 / 184	98	425°F / 218°C	525°F / 274°C	10°F / -12°C
SPO-299	L0249-	1000	8A	250	-	950 / 50	5100 / 245	99	450°F / 232°C	505°F / 263°C	10°F / -12°C
SPO-MG	L0252-	220	6	80W-140	60	237 / 25	1223 / 123	120	425°F / 218°C	465°F / 241°C	-25°F / -32°C

*SPO Series Oils are available in Bottles, Jugs, Pails, 1/4 Drums & Drums. See page 15 for package part number suffix.

APG Series: Heavy-Duty, Extreme Pressure (EP) Petroleum-Based Gear Oils.

These heavy-duty, extreme pressure type oils were developed to meet gear oil needs of most automotive, truck, heavy equipment and industrial gear boxes requiring an extreme pressure type oil. Meets military specification MIL-PRF-2105E and MIL-L-2105D and API categories GL-3, GL-4, GL-5, MT-1.

LUBRIPLATE PRODUCT	*PRODUCT PART NO.	ISO VIS. GRADE	AGMA NO.	SAE GEAR OIL NO.	SAE NO.	VIS. cSt @40°C/100°C	VIS. SUS @100°F/210°F	VIS. INDEX	FLASH POINT	FIRE POINT	POUR POINT
APG-75	L0116-	32	-	75W	10W	31 / 6	152 / 44	113	350°F / 177°C	365°F / 185°C	-55°F / -48°C
APG-80	L0117-	68	2 EP	80W	20	67 / 9	356 / 58	113	380°F / 193°C	440°F / 227°C	-35°F / -37°C
APG 80W-90	L0030-	100	3 EP	80W-90	40	124 / 15	650 / 84	121	380°F / 193°C	410°F / 210°C	-35°F / -37°C
APG-90	L0118-	150	5 EP	90	50	156 / 16	816 / 86	112	395°F / 202°C	440°F / 227°C	-20°F / -29°C
APG 80W-140	L0124-	320	6 EP	80W-140	60	248 / 25	1300 / 125	120	380°F / 193°C	410°F / 210°C	-25°F / -32°C
APG-140	L0119-	460	7 EP	85W-140	70	410 / 31	2220 / 152	107	405°F / 207°C	440°F / 227°C	0°F / -18°C
APG-250	L0120-	680	8 EP	250	-	701 / 42	3700 / 203	100	390°F / 199°C	450°F / 232°C	5°F / -15°C

*APG Series Oils are available in Bottles, Jugs, Pails, 1/4 Drums & Drums, APG 90 is also available in Tubes. See page 15 for package part number suffix.

CP-8A: Compounded (CP) Petroleum-Based Gear Oil.

This non-EP oil is manufactured with acidless tallow as required to meet AGMA specification 8A Comp. It is recommended for use in cone drives and double-enveloping worm gear drives.

LUBRIPLATE PRODUCT	*PRODUCT PART NO.	ISO VIS. GRADE	AGMA NO.	SAE GEAR OIL NO.	SAE NO.	VIS. cSt @40°C/100°C	VIS. SUS @100°F/210°F	VIS. INDEX	FLASH POINT	FIRE POINT	POUR POINT
CP-8A	L0141-	1000	8A COMP	250	-	950 / 47	4950 / 230	95	550°F / 288°C	600°F / 316°C	35°F / 2°C

*CP-8A is available in Pails, 1/4 Drums & Drums. See page 15 for package part number suffix.

Machine Tool Oils: Petroleum-Based Machine Oils.

FJK000066

Compounded to impart a unique load carrying film, exceptional lubricity, and anti-friction properties not found in conventional oils of the same viscosity.

LUBRIPLATE PRODUCT	*PRODUCT PART NO.	ISO VIS. GRADE	AGMA NO.	SAE GEAR OIL NO.	SAE NO.	VIS. cSt @40°C/100°C	VIS. SUS @100°F/210°F	VIS. INDEX	FLASH POINT	FIRE POINT	POUR POINT
NO. 0	L0000-	7-10	-	-	5W	9 / -	56 / 34	-	275°F / 135°C	295°F / 146°C	-60°F / -51°C
NO. 1	L0002-	22	-	-	10W	22 / -	115 / 38	-	345°F / 174°C	360°F / 182°C	-50°F / -46°C
NO.2	L0003-	46	1	75W	20	45 / -	228 / 45	96	365°F / 185°C	385°F / 196°C	-30°F / -34°C
NO. 3V	L0009-	68	2	80W	20	62 / -	326 / 48	98	380°F / 193°C	395°F / 202°C	-25°F / -32°C
NO. 3	L0005-	100	3	80W	30	92 / -	490 / 58	98	390°F / 199°C	410°F / 210°C	-25°F / -32°C
NO. 4	L0011-	150	4	90	40	162 / 13	854 / 72	98	420°F / 216°C	450°F / 232°C	-20°F / -29°C
NO. 8	L0014-	460	7	140	70	432 / 28	2300 / 142	90	435°F / 224°C	515°F / 268°C	0°F / -18°C

*Machine Tool Oils are available in Bottles, Jugs, Pails, 1/4 Drums & Drums. See page 15 for package part number suffix.

AGMA-American Gear Manufacturers Association. ISO-International Standards Organization.

932110082

Specialty Greases

X-357: A special extreme pressure moly-fortified lubricant that penetrates and adheres, water resistant. Use on pintle hooks, slide axles, open gears, fifth wheels. Product Part No. L0149-. See page 15 for packaging information.

NO. 777: This special grease lubricant has been approved by Ford Motor Co. specification ESF-M1C-26-A for use as a starter motor shaft lubricant. Also approved for starter drives on Evinrude / Johnson outboards. Product Part No. L0081-. See page 15 for packaging information.

NO. 105 Motor Assembly Grease: A smooth, light bodied, water-repellent grease that is applied to engine bearings, cylinder walls and other moving internal engine parts. Provides lubrication and protects parts from scuffing and scoring during initial start up before the motor oil circulates. Prevents rust on newly machined engine parts. Will not clog filters or oil lines. Product Part No. L0034-. See page 15 for packaging information.

NO. 107 Concrete Form Release: This soft grease can easily be sprayed on form contact surfaces providing immediate release once the concrete is set. White in color, it will not stain the casting. Product Part No. L0036-. See page 15 for packaging information.

DS-ES Electric Switch Lubricant: Developed for the lubrication of electrical switch contacts. Used extensively in the automotive industry for switches, sockets, and wiring harness connectors. Excellent oxidation resistance and compatibility with metal, plastic and rubber. Product Part No. L0137-. See page 15 for packaging information.

GR-132 Portable Tool Grease: A light viscosity oil combined with a lithium combination thickener makes GR-132 ideal for applications where fluid friction must be kept to a minimum. Ideal for the small gear cases in portable tools. Product Part No. L0158-. See page 15 for packaging information.

Brick Grease: This NLGI No. 6 grade sodium-type grease was developed for the lubrication of open slot and open well type bearings where the brick grease rides directly on the bearing shaft. Package / case 4/10 lb. Bricks 43 lbs. net. Part No. L0131-038.

Lithium Brick Grease: This NLGI No. 6 grade lithium grease is recommended for open slot and open well type bearings where the brick grease rides directly on the bearing shaft. Package / case 4/10 lb. Bricks, Part No. L0132-038.

5 JK000067

Specialty Oils & Fluids

Air Tool Lubricant: Designed for both rotary and reciprocating types of air tools such as hammers, impact wrenches, air motors, grinders, reamers and drills. Proven excellent air line lubricant, used effectively on lift cylinders of can fillers in breweries, bottling plants. Removes gumming and sludge. Product Part No. L0713-.

Jack Oil: A heavy-duty, high pressure hydraulic oil, anti-wear and anti-corrosion additives. Product Part No. L0768-.

Bar & Chain Oil: Formulated with special anti-wear additives to provide maximum protection to the bar and chain of all makes of chain saws. SAE grade 20. Good adhesion properties provide excellent resistance to "throw off" action. Part No. L0720-.

Chain & Cable Fluid / Chain & Cable Heavy: Superior penetrating oils that clean and lubricate without gumming. Ideal for wire rope, chains, cables, hinges, springs, slides and other moving metal parts. Protects bright work. Excellent oils to loosen rusty nuts and bolts. Ideal for tapping and drilling. Part Nos. L0135- and L0136-. See page 15 for packaging information and package part number suffix.

Super Chain Oil: A heavy polymer, tenacious, high flash point oil containing micro-fine graphite. Excellent for bakery ovens, drying ovens where temperatures do not exceed 450°F. / 232°C. Works well on floor chain conveyors, car wash lines, assembly lines. Flash point 520°F. / 271°C. Fire point 600°F. / 316°C. Product Part No. L0857-. See page 15 for packaging information and package part number suffix.

Synthetic Worm Gear Lubricant: This high performance, ISO 460 grade, synthetic gear lubricant is recommended for all types of worm gear reducers. Product Part No. L0981-. See page 15 for packaging information and package part number suffix.

Syn Flush: This premium quality, pure synthetic fluid is designed to clean and dissolve varnish deposits in air compressors while the compressor is in operation. It is compatible with petroleum/mineral oils as well as all Lubriplate Synthetic Compressor Fluids. Recommended for flushing compressors converting from petroleum base oils to synthetic fluids. SYNFLUSH can be used in its pure form in rotary screw air compressors up to 500 hours. Part No. L0962-.

Heat Transfer Oils: These high flash and fire point oils are designed for exceptional heat transfer properties. For use on oil type heat exchangers in asphalt plants, roofer tar kettles, curing machines. Flash point 525°F. / 274°C. Fire Point 600°F. / 316°C. Available in ISO viscosity grades 32, Part No. L0757-, 68, Part No. L0751-, and 150 Part No. L0750-. Available in Pails & Drums. See page 15 for package part number suffix.

Rock Drill Oils 10R, 30R: For all types of rock drills, air hammers and other pneumatic tools used in the construction and mining industries. Available in SAE 10W, Part No. L0847-, and 30, Part No. L0848-, with the lighter weight oil for cold weather conditions. Use SPO-255 for SAE 50 rock drill oil.

Mist Oil: Designed to meet optimum requirements of mist applicators or fogging oil systems. The use of special oils and additives assures proper misting qualities. Mist oil provides superior wear protection against heavy loads. For machine tools, grinders, conveyor systems. SAE 30. Part No. L0177-.

Vacuum Pump Oil & Vacuum Pump Oil Light: High performance, non-detergent mineral oils recommended for most rotary vane and rotary lobe vacuum pumps. They are designed to alleviate the sludge, carbon deposits and contamination problems commonly found in industrial vacuum pumps. Lubriplate Vacuum Pump Oil Light is recommended for vacuum pumps typically associated with delicate instrumentation. Vacuum Pump Oil is SAE-30 / ISO-100 grade. Part No. L0945-. Vacuum Pump Oil Light is SAE-10 / ISO-32 grade. Part NO. L0944-.

HO Special Hydraulic Oils: HO-32, HO-46* and HO-68 meet the requirements and are approved by Abex-Denison HF-0 and HF-2, they are also accepted by Vickers specification M-2950-S. *Lubriplate HO-46 is approved by Cincinnati-Milacron under Specification P-70. Product Part Nos. HO-32, L0770-, HO-46, L0771-, HO-68, L0772-. See page 15 for packaging information.

932110083

Synthetic Food Machinery Grade Fluids / Class H-1*

Certified Kosher Pareve · NSF H-1 REGISTERED

SFGO Ultra Series: Polyalphaolefin (PAO)-Based, High-Performance Fluids.

Formulated with 100% PAO synthetic base fluids for a variety of demanding applications. They are outstanding lubricants for use under severe conditions subject to extremely high or low temperatures. They exhibit outstanding oxidation resistance and thermal stability capabilities. Recommended for air compressors, hydraulic systems, bearings, gearboxes, pumps and chains which experience very demanding conditions. Meets FDA 21 CFR 178.3570 and FDA 21 CFR 172.882 for applications where incidental contact with the edible product may occur. SFGO Ultra 220 and 460 pass 12 stages of the FZG Test.

LUBRIPLATE PRODUCT	*PRODUCT PART NO.	ISO VIS. GRADE	AGMA NO.	SAE GEAR OIL NO.	SAE NO.	VIS. cSt @40°C/100°C	VIS. SUS @100°F/210°F	VIS. INDEX	FLASH POINT	FIRE POINT	POUR POINT
SFGO Ultra-7	L0912-	7	-	-	5W	7 / 2	51 / 34	137	320°F / 160°C	350°F / 176°C	-75°F / -60°C
SFGO Ultra-15	L0930-	15	-	-	5W	16 / 4	89 / 40	129	380°F / 93°C	410°F / 210°C	-70°F / -57°C
SFGO Ultra-22	L0931-	22	-	-	5W	20 / 4	106 / 41	128	405°F / 207°C	430°F / 221°C	-65°F / -54°C
SFGO Ultra-32	L0915-	32	-	75	10	31 / 6	160 / 46	130	465°F / 241°C	515°F / 268°C	-70°F / -57°C
SFGO Ultra-46	L0916-	46	1	80	20	45 / 8	220 / 52	134	480°F / 249°C	520°F / 271°C	-65°F / -54°C
SFGO Ultra-68	L0917-	68	2	80	30	67 / 10	325 / 59	125	495°F / 257°C	545°F / 285°C	-60°F / -51°C
SFGO Ultra-100	L0983-	100	3	85	40	105 / 16	556 / 77	158	515°F / 268°C	560°F / 293°C	-65°F / -54°C
SFGO Ultra-150	L0984-	150	4	90	50	151 / 20	762 / 97	156	510°F / 265°C	555°F / 291°C	-60°F / -51°C
SFGO Ultra-220	L0985-	220	5	90	50	216 / 26	1088 / 128	155	510°F / 265°C	555°F / 291°C	-50°F / -46°C
SFGO Ultra-320	L0986-	320	6	140	60	312 / 34	1557 / 161	155	505°F / 263°C	550°F / 288°C	-50°F / -46°C
SFGO Ultra-460	L0987-	460	7	140	-	446 / 45	2143 / 211	156	505°F / 263°C	550°F / 288°C	-45°F / -43°C
SFGO Ultra-680	L0988-	680	8	250	-	623 / 57	3289 / 275	157	500°F / 260°C	545°F / 285°C	-45°F / -43°C
SFGO Ultra-1000	L0989-	1000	-	-	-	950 / 77	4900 / 372	157	500°F / 260°C	545°F / 285°C	-35°F / -37°C

*SFGO Ultra Fluids are available in Jugs, Pails, 1/4 Drums & Drums. See page 15 for package part number suffix.

SFGO Series: Polyalphaolefin (PAO)-Based, Multi-Purpose Fluids.

The original SFGO fluids, ISO viscosity grades 100 through 1500 are still available for less stressful applications which require only a PAO/Polymer combination synthetic fluid.

SYN-H1-220: Polyalkylene Glycol Based Synthetic Chain, Bearing and Gearbox Lubricant.

Specifically designed for use where elevated temperatures exist and the need for a food grade lubricant is required. For chain applications where air temperatures exceed 400°F./ 204°C and up to 600°F./ 316°C. when not exposed to open flame or ignition source. Passes 12 stages of FZG test.

LUBRIPLATE PRODUCT	*PRODUCT PART NO.	ISO VIS. GRADE	AGMA NO.	SAE GEAR OIL NO.	SAE NO.	VIS. cSt @40°C/100°C	VIS. SUS @100°F/210°F	VIS. INDEX	FLASH POINT	FIRE POINT	POUR POINT
SYN-H1-220	L0779-	220	5	90	-	285 / 41	1310 / 188	206	540°F / 282°C	550°F / 288°C	-20°F / -29°C

*SYN-H1-220 Fluid is available in Pails & Drums. See page 15 for package part number suffix.

RCO-68: Polyalphaolefin (PAO)-Based, Food Machinery Grade, Refrigeration Compressor Fluid.

Formulated for use in refrigeration compressor systems where a NSF H-1 Registered, food machinery grade lubricant is required.

LUBRIPLATE PRODUCT	*PRODUCT PART NO.	ISO VIS. GRADE	AGMA NO.	SAE GEAR OIL NO.	SAE NO.	VIS. cSt @40°C/100°C	VIS. SUS @100°F/210°F	VIS. INDEX	FLASH POINT	FIRE POINT	POUR POINT
RCO-68	L0818-	68	2	80	30	67 / 10	325 / 59	125	495°F / 257°C	545°F / 285°C	-60°F / -51°C

*RCO-68 Fluid is available in Pails & Drums. See page 15 for package part number suffix.

Synthetic Food Machinery Grade Greases / Class H-1*

Certified Kosher Pareve · NSF H-1 REGISTERED

SYNXTREME FG-2: Synthetic, Calcium Sulfonate Complex, Food Machinery Grade Grease.

A NSF H-1 registered, high performance, multi-purpose, synthetic, food machinery grade grease. Provides long lasting, anti-wear and extreme pressure protection. It is highly resistant to water and caustic solution wash downs. Provides excellent high and low temperature performance.

LUBRIPLATE PRODUCT	*PRODUCT PART NO.	NLGI DENSITY	OIL VIS. cSt / SUS @40°C / 100°F	WORKED PENETRATION	ASTM DROP POINT	APPROX COLD TEST	AW / EP	RUST & OXID. ADDITIVES	WATER RESISTANT
SYNXTREME FG-2	L0305-	2	100 / 500	265 / 295	700°F / 371°C	-40°F / -40°C	AW/EP	YES	YES

*SYNXTREME FG-2 is available in Cartidges, Pails, 1/4 Drums & Drums. See page 15 for package part number suffix.

F.IK000068

SFL Series: Multi-Purpose, Synthetic, Aluminum Complex, Food Machinery Grade Greases.

This series provides an exceptionally wide operating temperature range, high shear stability, excellent water resistance, and load carrying properties. For use in freezers and other cold temperature applications or in areas subject to both cold and elevated temperatures. Available in 4 densities.

LUBRIPLATE PRODUCT	*PRODUCT PART NO.	NLGI DENSITY	OIL VIS. cSt / SUS @40°C / 100°F	WORKED PENETRATION	ASTM DROP POINT	APPROX COLD TEST	AW / EP	RUST & OXID. ADDITIVES	WATER RESISTANT
SFL-00	L0195-	00	39 / 200	400 / 430	400°F / 204°C	-60°F / -51°C	AW	YES	YES
SFL-0	L0196-	0	39 / 200	355 / 385	425°F / 218°C	-60°F / -51°C	AW	YES	YES
SFL-1	L0197-	1	39 / 200	310 / 340	450°F / 232°C	-60°F / -51°C	AW	YES	YES
SFL-2	L0198-	2	219 / 1070	265 / 295	500°F / 260°C	-25°F / -32°C	AW	YES	YES

*SFL Series Greases are available in Cartidges, Pails, 1/4 Drums & Drums. See page 15 for package part number suffix.

*Lubriplate H-1 Class Lubricants are manufactured with ingredients that comply with FDA 21 CFR 178.3570 for lubricants with incidental contact with the edible product. NSF H-1 Registered.

932110084

USP Mineral Oil-Based Food Machinery Grade Oils / Class H-1*

Certified Kosher Pareve

NSF H-1 REGISTERED

FMO-AW Series: Multi-Purpose, Food Grade USP White Mineral Oils.

For use where a Class H-1 oil is required. Manufactured in nine ISO grades for a variety of applications. Anti-wear fortified. NOTE: FMO-350AW is also available in a red and orange color which helps in leak detection. The original FMO Series products without the anti-wear additive system are still available.

LUBRIPLATE PRODUCT	*PRODUCT PART NO.	ISO VIS. GRADE	AGMA NO.	SAE GEAR OIL NO.	SAE NO.	VIS. cSt @40°C/100°C	VIS. SUS @100°F/210°F	VIS. INDEX	FLASH POINT	FIRE POINT	POUR POINT
FMO-85 AW	L0880-	15-22	-	-	5W	19 / 4	103 / 40	112	335°F / 168°C	365°F / 185°C	-45°F / -43°C
FMO-150 AW	L0879-	32	-	-	10W	32 / 5	162 / 43	71	370°F / 188°C	415°F / 213°C	-30°F / -34°C
FMO-200 AW	L0881-	46	1	75	10	41 / 6	208 / 48	111	375°F / 191°C	405°F / 207°C	-25°F / -32°C
FMO-350 AW	L0882-	68	2	80	20	68 / 8	348 / 56	103	435°F / 224°C	490°F / 254°C	-10°F / -23°C
FMO-500 AW	L0883-	100	3	80	30	99 / 11	523 / 66	102	495°F / 257°C	545°F / 285°C	0°F / -18°C
FMO-900 AW	L0884-	150	4	90	40	160 / 15	856 / 83	99	450°F / 232°C	540°F / 282°C	0°F / -18°C
FMO-1100 AW	L0886-	220	5	90	50	210 / 19	1126 / 97	100	440°F / 227°C	510°F / 266°C	5°F / -15°C
FMO-1700 AW	L0887-	320	6	140	60	324 / 25	1730 / 120	95	430°F / 221°C	505°F / 263°C	5°F / -15°C
FMO-2400 AW	L0885-	460	7	140	70	456 / 30	2350 / 142	93	425°F / 218°C	505°F / 263°C	10°F / -12°C
FMO-3800 AW	L0888-	680	8	250	-	690 / 40	3864 / 198	96	420°F / 216°C	485°F / 252°C	15°F / -9°C

*FMO Series Oils are available in Bottles, Jugs, Pails, 1/4 Drums & Drums. See page 15 for more information and package part number suffix.

Food Grade Cooker Oil: This zinc free oil is designed for use in the Manzel Lubricators and Micro-valve systems found on most cookers and sterilizers used in canning operations and other similar applications involving high temperature and high humidity conditions. Unique additives provide high load-carrying ability and corrosion protection.

STO-FG Oil: Special, non-corrosive oil for lubricating stirrups on bottle filling machines. Class H-1.

PM 500 White Oil: This oil contains emulsifying agents that wet the lubricated surfaces and provides an oily film for the moving parts. Used very successfully on pear machines.

FP-150 & FP-150L: These clear, tacky, adhesive Class H-1 oils resist heavy water washdown and steam. For helical gearboxes, chains, linkages, cams, and slides and wherever a dripless, adhesive fluid lubricant is desired.

Pure Flush: This lubricating, flushing and cleansing oil is to be used along with the existing lubricant to clean equipment without dismantling. It can be used to clean and flush bearings, gear cases, hydraulic systems, centralized lubricating systems, air lines, chains and air tools. It is fully compatible with petroleum based lubricants and most petroleum compatible synthetics. Class H-1.

LUBRIPLATE PRODUCT	*PRODUCT PART NO.	ISO VIS. GRADE	AGMA NO.	SAE GEAR OIL NO.	SAE NO.	VIS. cSt @40°C/100°C	VIS. SUS @100°F/210°F	VIS. INDEX	FLASH POINT	FIRE POINT	POUR POINT
FG Cooker Oil	L0701-	150	4	90	40	155 / 16	795 / 82	104	475°F / 246°C	525°F / 274°C	5°F / -15°C
STO-FG	L0863-	68	2	80	20	67 / 13	340 / 70	105	425°F / 218°C	485°F / 252°C	-15°F / -26°C
PM-500	L0192-	100	3	80	30	101 / 11	560 / 64	86	420°F / 216°C	485°F / 252°C	-5°F / -21°C
FP-150	L0735-	460	7	140	70	367 / 25	1950 / 127	93	395°F / 202°C	455°F / 235°C	0°F / -18°C
FP-150L	L0736-	100	3	80	30	103 / 12	510 / 67	108	410°F / 210°C	450°F / 232°C	-5°F / -21°C
Pure Flush	L0816-	-	-	-	-	7 / 2	50 / 32	-	210°F / 99°C	220°F / 104°C	-35°F / -37°C

*See page 15 for the package part number suffix which identifies the available packaging. Not all products are available in every package size.

Food Machinery Oils / Class H-2**

No. 72-C Oil: Class H-2** oil, for use as a steam peeler oil as it provides an oiliness film which prevents chatter. FJK000069

No. 78 Cooker Oil: Class H-2** oil, for use in Manzel lubricators for A-B cookers and sterilizers, FMC cookers. Corrosion and oxidation resistant.

STO-4 Oil: Special, non-corrosive oil for lubricating stirrups on bottle filling machines. Class H-2.**

AS-148 Oil: An ashless oil for bearings, gears and cams where high temps are encountered. For Manzel lubricators and Angelus Seamers. Class H-2.**

LUBRIPLATE PRODUCT	*PRODUCT PART NO.	ISO VIS. GRADE	AGMA NO.	SAE GEAR OIL NO.	SAE NO.	VIS. cSt @40°C/100°C	VIS. SUS @100°F/210°F	VIS. INDEX	FLASH POINT	FIRE POINT	POUR POINT
72-C	L0703-	150	4	90	40	151 / 13	750 / 75	110	490°F / 254°C	520°F / 271°C	15°F / -9°C
78	L0700-	150	4	90	40	164 / 15	850 / 82	99	475°F / 246°C	565°F / 296°C	-20°F / -29°C
STO-4	L0860-	46	1	75	20	45 / -	255 / 47	70	320°F / 160°C	370°F / 188°C	-30°F / -34°C
AS-148	L0715-	220	5	90	50	200 / 18	1041 / 91	97	470°F / 243°C	525°F / 274°C	10°F / -12°C

*See page 15 for the package part number suffix which identifies the available packaging. Not all products are available in every package size.

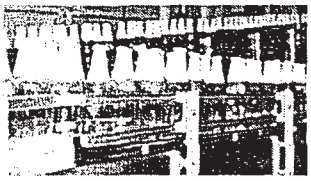
**H-2 Class lubricants may be used as a lubricant or anti-rust agent on equipment in which there is no possibility of the lubricated part contacting the edible product.

USP Mineral Oil-Based Food Grade Greases / Class H-1*

Certified Kosher Pareve

NSF H-1 REGISTERED

FGL Series: High Performance, Multi-Purpose Food Grade Greases.



Designed to meet the demands of food and beverage industry plant engineers who want Class H-1 greases to totally replace H-2 greases. Fortified with anti-wear, anti-rust and anti-corrosion additives which combine to yield excellent shear stability, load carrying capability and resistance to water and caustic wash down. Available in four NLGI densities for a variety of applications. FGL-CC is for centralized/automatic lubrication systems on high speed can closing equipment.

LUBRIPLATE PRODUCT	*PRODUCT PART NO.	GREASE TYPE	NLGI DENSITY	OIL VIS. cSt/SUS @40°C/100°F	WORKED PENETRATION	ASTM DROP POINT	APPROX COLD TEST	AW / EP	RUST & OXID. ADDITIVES	WATER RESISTANT
FGL-00	L0226-	ALUMINUM COMPLEX	00	120 / 550	400 / 430	410°F / 210°C	-5°F / -21°C	AW	YES	YES
FGL-CC	L0229-	ALUMINIUM COMPLEX	0/00	120 / 550	370 / 410	450°F / 232°C	0°F / -18°C	AW	YES	YES
FGL-0	L0230-	ALUMINUM COMPLEX	0	120 / 550	355 / 385	435°F / 224°C	0°F / -18°C	AW	YES	YES
FGL-1	L0231-	ALUMINUM COMPLEX	1	120 / 550	310 / 340	460°F / 238°C	0°F / -18°C	AW	YES	YES
FGL-2	L0232-	ALUMINUM COMPLEX	2	160 / 850	265 / 295	515°F / 268°C	10°F / -12°C	AW	YES	YES

*FGL Series greases are available in Cans, Pails, 1/4 Drums & Drums, FGL-1 & FGL-2 are available in Cartridges. See page 15 for more information and package part number suffix.

FML Series: Multi-Purpose, Food Grade Greases.

These white, multi-purpose greases have been leaders in the food processing industry for years.

LUBRIPLATE PRODUCT	*PRODUCT PART NO.	GREASE TYPE	NLGI DENSITY	OIL VIS. cSt/SUS @40°C/100°F	WORKED PENETRATION	ASTM DROP POINT	APPROX COLD TEST	AW / EP	RUST & OXID. ADDITIVES	WATER RESISTANT
FML-0	L0143-	ANHYDROUS CALCIUM	0	144 / 750	355 / 385	280°F / 138°C	0°F / -18°C	AW	YES	YES
FML-1	L0144-	ANHYDROUS CALCIUM	1	144 / 750	310 / 340	285°F / 141°C	0°F / -18°C	AW	YES	YES
FML-2	L0145-	ANHYDROUS CALCIUM	2	144 / 750	265 / 290	285°F / 141°C	0°F / -18°C	AW	YES	YES

*FML Series greases are available in Cans, Pails, 1/4 Drums & Drums, FML-2 is available in Cartridges. See page 15 for more information and package part number suffix.

PURE TAC: Tacky, Adhesive Food Grade Grease.

This tacky, adhesive, highly water resistant, Class H-1 grease is designed for applications subjected to chemically treated water, heat and steam. For all types of medium to slow speed bearings, open gears and hydrostatic cooker chains.

LUBRIPLATE PRODUCT	*PRODUCT PART NO.	GREASE TYPE	NLGI DENSITY	OIL VIS. cSt/SUS @40°C/100°F	WORKED PENETRATION	ASTM DROP POINT	APPROX COLD TEST	AW / EP	RUST & OXID. ADDITIVES	WATER RESISTANT
PURE TAC	L0236-	ALUMINIUM COMPLEX	2	1187 / 6500	265 / 295	520°F / 271°C	25°F / -4°C	AW	YES	YES

*PURE TAC is available in Cartridges, Pails, 1/4 Drums & Drums. See page 15 for more information and package part number suffix.

CLEARPLEX-2: Clear, Multi-Purpose Food Grade Grease.

This Aluminum Complex thickened, H-1 class grease is engineered for use in plain and anti-friction bearings in the food-processing and beverage processing industry. Contains non zinc-oxide anti-wear additive.

LUBRIPLATE PRODUCT	*PRODUCT PART NO.	GREASE TYPE	NLGI DENSITY	OIL VIS. cSt/SUS @40°C/100°F	WORKED PENETRATION	ASTM DROP POINT	APPROX COLD TEST	AW / EP	RUST & OXID. ADDITIVES	WATER RESISTANT
CLEARPLEX-2	L0351-	ALUMINIUM COMPLEX	2	104 / 500	265 / 295	450°F / 232°C	10°F / -12°C	AW	YES	YES

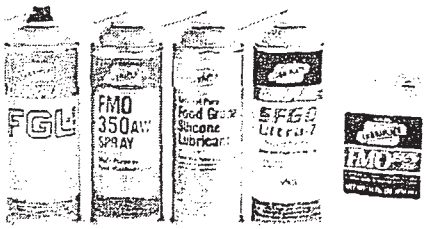
*CLEARPLEX-2 is available in Cartridges, Pails, 1/4 Drums & Drums. See page 15 for more information and package part number suffix.

Food Grade Spray Lubricants / Class H-1*

Certified Kosher Pareve

NSF H-1 REGISTERED

FJK000070



FGL-1 Spray: Class H-1 lubricant in handy easy to use 11 OZ. / 312 g. spray can. Quick and clean applications. Fortified with anti-wear, anti-rust, and anti-corrosion additives. Part No. L0231-063

Super FML-2 Spray: A Class H-1 white lubricant in handy, easy to use spray can. For use in food processing operations where a Class H-1 lubricant is required. Part No. L0145-063.

FMO-85-AW Spray: A multi-purpose Class H-1 oil. Packed in 14 OZ. / 414 ml hand pump, non-aerosol spray bottle. Part No. L0880-067.

FMO-350-AW Spray: A Class H-1 food machinery oil, in easy to apply spray can. For use where a Class H-1 oil is required. Part No. L0882-063.

Food Grade Silicone Lubricant: A multi-purpose, silicone lubricant for use on bottling, dairy and food processing machinery. For slides, O-rings, rubber seals and general lubrication. Part No. L0723-063.

SFGO Ultra-7 Spray: A multi-purpose, synthetic fluid lubricant, for use on bottling, dairy and food processing machinery. For chains, slides and general lubrication. Part No. L0912-063.

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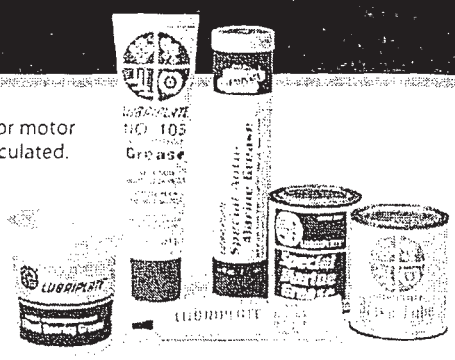
*H-1 Class Lubricants are manufactured with ingredients that comply with FDA regulation 21 CFR 178.3570 for lubricants with incidental contact with the edible product.

Automotive Lubricants



No. 105 Motor Assembly Grease: A smooth light-bodied grease made especially for motor assembly. Prevents "Dry Start." Provides lubrication during initial start up before the motor oil has circulated. Protects freshly machined engine parts from rust and corrosion. Part No. L0034-094.

No. 105 "B" Tube General Purpose Grease: The original white grease in handy tube. Ideal for locks, latches, hinges, wiper mechanisms, speedometer cables, or anywhere you need a light-bodied, grease type lubricant. Also excellent for motor assembly. Part No. L0034-086.

Wheel Bearing Grease: A superior, long lasting, water resistant, extreme pressure, wheel bearing grease. N.L.G.I. GC-LB certified. Available in 16 oz. Plastic Tubs, Part No. L0220-004, as well as 6 lb Cans, Pails, 1/4 Drums and Drums. See page 15 for package part number suffix.

Special Auto Marine Grease: A super multi-purpose, high temperature, water repellent, extreme pressure grease for automotive and marine uses. Available in 14 oz. Cans Part No. L0206-001 and 14.5 oz. Cartridges Part No. L0206-098.

No. 110 Brake Lubricant: This water repellent grease is designed for the contact points where the brake shoes rest on the backing plate and for the automatic adjusters inside the brake assembly. Product Part No. L0037- Available in Cans, Pails, 1/4 Drums and Drums. See page 15 for package part number suffix.

Spray Lubricants: See page 15 for information.

Motor Oils & Transmission Fluids

Super GPO Heavy-Duty Motor Oils: Designed for naturally aspirated and turbo-charged diesel, gasoline and LP gas engines. Ideal for mixed fleets, construction equipment, trucks and automobiles. API service CG-4, CF-4 (15W-40 & 10W-30), CF, CF-2, CE, CD, SH, SJ, MIL-L-2104G and MIL-L-46152E. SAE 30, Pt. No. L0749-, SAE 40, Pt. No. L0752-, SAE 10W-30, Pt. No. L0754-, SAE 15W-40, Pt. No. L0753-.

Super HDS Motor Oil: Fully detergent motor oils for diesel and gasoline engines. Protects against oxidation, corrosion, foaming, sludge and wear. For service SJ / CF, MIL-L-46152E. SAE 10W, Pt. No. L0788-, SAE 20-20W, Pt. No. L0789-, SAE 30, Pt. No. L0791-, SAE 40, Pt. No. L0792-, SAE 50, Pt. No. L0793-.

Super 345, SAE 5W-30 Long Mileage Motor Oil: Designed for today's smaller automobile engines. For service SJ / CF / ILSAC GF-1. Energy Conserving II. Part No. L0732-. See page 15 for packaging information.

Non-Detergent Motor Oil: A top quality non-detergent motor oil. For use where detergent oils are not required or desired. For service SA. SAE 10W, Pt. No. L0804-, SAE 20-20W, Pt. No. L0806-, SAE 30, Pt. No. L0807-, SAE 40, Pt. No. L0808, SAE 50, Pt. No. L0809-. See page 15 for packaging information.

2 Cycle Motor Oil: For use in air cooled, 2 cycle engines on motor cycles, lawn equipment, chain saws, snowmobiles and outboards. Pt. No. L0826-.

DEXRON III / MERCON Automatic Transmission Fluid: Recommended and approved for all General Motors, Chrysler, and Ford (1989 and Newer) or anywhere Dexron and Ford Mercon Fluids are specified. Product Part No. L0867-. See page 15 for packaging information.

Hydraulic-Transmission Fluid Type UTF: For heavy-duty equipment where UTF type fluids are required. Pt. No. L0873-.

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Metal Working Fluids

Darl No. 2 Cutting Oil: Multi-purpose dark cutting oil for all types of machining operations on a wide range of metals including, steel, copper, brass, and aluminum. Product Part No. L0520-. See page 15 for packaging information and package part number sufix.

No. 405 Dark Cutting Oil: Heavy-duty, dark cutting oil recommended for difficult machining operations. Excellent for high carbon steels, alloys, and stainless steels. Not recommended for brass, bronze, copper, or aluminum. Product Part No. F0587-. See page 15 for packaging information.

Flokool XX Cutting Oil: Multi-purpose cutting oil for high speed machining operations. Appears transparent on the workpiece and will drain off the completed parts quickly. Not recommended for brass, bronze, or copper. Product Part No. F0530-. See page 15 for packaging information.

Honing Oil: Light viscosity oil compounded with non-corrosive, sulfurized fatty bases to insure good fluidity and wetting action. Part No. F0535-.

No. 35 Soluble Oil: Multi-purpose, water soluble cutting oil. Forms a milky white emulsion that does not readily decompose. Part No. L0576-.

Cut-n-Cool: Heavy duty, water soluble cutting oil fortified with both sulfur and chlorine which delivers substantially longer tool life, improved finish, and more accurate cuts. May stain brass, bronze, and copper if not cleaned off work shortly after use. Product Part No. L0514-. See page 15 for packaging information.

Metal Working Fluid: A specially developed product for metal working operations. Excellent for drilling, tapping, sawing, and grinding. Packed in handy 12 OZ. / 340 g. spray can. Part No. L0185-063. See page 15 for packaging information.

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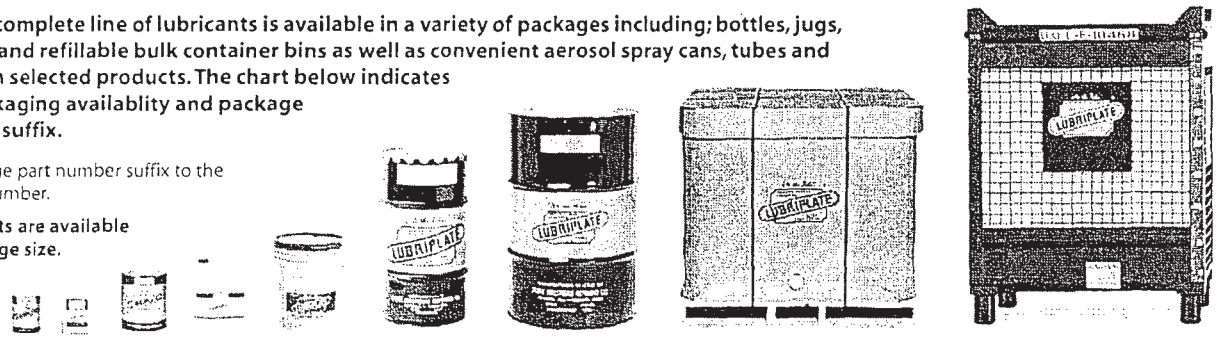
Packaging Containers

Lubriplate's complete line of lubricants is available in a variety of packages including; bottles, jugs, pails, drums and refillable bulk container bins as well as convenient aerosol spray cans, tubes and cartridges on selected products. The chart below indicates product packaging availablity and package part number suffix.

Add the package part number suffix to the product part number.

Not all products are available in every package size.



PRODUCT / PACKAGE PART NO. SUFFIX	24 / SM. CANS 14 OZ. / 397 g	12 / BOTTLES 1 QUART / 946 ml 2 LB. / .907 kg	6 / CANS 6 LB. / 2.72 kg	4 / JUGS 1 GAL. / 3.79 L 7 LB / 3.18 kg	PAIL 35 LB. / 15.9 kg 5 GAL. / 18.9 L	QTR. DRUM 120 LB. / 54 kg 16 GAL. / 60.5 L	FULL DRUMS 400 LB. / 181 kg 55 GAL. / 208 L	REFILLABLE OR DISPOSABLE BULK BINS.**
Multi-Purpose Synthetic Fluids	-	-	-	-057	-060	-061	-062	•
Air Compressor Fluids / Oils	-	-054	-	-057	-060	-061	-062	•
Hydraulic Oils	-	-	-	-057	-060	-061	-062	•
*Greases	-001	-	-006	-	-035	-039	-040	•
*Gear, Bearing & Recirculating Oils	-	-013	-	-007	-035	-039	-040	•
Specialty Greases	-001	-	-006	-	-035	-039	-040	•
Specialty Oils & Fluids	-	-054	-	-057	-060	-061	-062	•
Food Machinery Grade Fluids / Oils	-	-054	-	-057	-060	-061	-062	•
*Food Machinery Grade Greases	001	-	-006	-	-035	-039	-040	•
Motor Oils / Transmission Fluids	-	-054	-	-	-060	-	-062	•
Metal Working Fluids	-	-	-	-057	-060	-061	-062	•

*Items Sold By Weight. **For size, package part number suffix and price information on Bulk Bins call 800-733-4755.

Grease Cartridges: Lubriplate Grease Cartridges provide quick, clean, convenient, "on site" lubrication with reduced waste and grease contamination. SYNXTREME HD-2, SYN-1601, SYN-1602, No. 630-2, 730-2, 930-AA, 930-2, 1200-2, 1241, 1242, 1444, 1551, 1552, 3000, 3000-W, HIGH TEMP, LOW TEMP, MO-LITH NO. 2, MAG 1, EMB, SYNXTREME FG-2, SFL-1, SFL-2, FGL-1, FGL-2, FML-2, PURE TAC, CLEARPLEX-2 and SPECIAL AUTO-MARINE GREASE: These products are available in 14 1/2 OZ. / 411g cartridges, 40 to a case. Package Part No. Suffix -098.

GEAR SHIELD EXTRA HEAVY: Available in 10 1/2 OZ. / 297g caulk type cartridges, 40 to a case. Part No. L0152-000.

Lubricants In Plastic Tubes:

No. 105, 630-AA and AERO are available in 3/8 OZ. / 10.6 g plastic tubes, 288 to a case. Package Part No. Suffix -076.

No. 105, 130-AA, 630-AA, 930-AA, AERO and DS-ES are available in 1 3/4 OZ. / 50 g tubes, 36 to a case. Part No. Suffix -086.

No. 105 Gear Lube, 130-AA, 630-AA, LOW-TEMP, and APG 90 GEAR OIL are available in 10 OZ. / 284 g plastic tubes, 36 to a case. Package Part No. Suffix -092. and No. 105 Motor Assembly Grease Part No. L0034-094.

FJK000072

Multi-Purpose Spray Lubricants

Chain & Cable Fluid: Superior penetrating oil. A cleansing non-gumming oil. Lubricates wire rope, chains, cables, any moving metal surfaces. Prevents rust and corrosion. Protects brightwork, loosens rusty nuts and bolts. Excellent drilling, tapping, and sawing oil. 12 OZ. / 340 g. spray can. Part No. L0135-063.

Spray Lube "A": A multi-pupose, white lithium-based lubricant of medium density. Sprays like a fluid, congeals to a grease. Excellent for latches, locks, hinges, battery terminals and other hardware. Part No. L0034-063.

Gear Shield Extra Heavy: Developed for easy lubrication of open gears. A tough tacky grease. Excellent for fifth wheel applications. Packed in handy 11 OZ. / 311.8 g. spray can. Part No. L0152-063.

Oil Well In a Bottle™: An excellent multi-purpose, penetrating oil ideal for slides, hinges, rollers, cables, frozen nuts and bolts. Prevents rust and corrosion. Moisture displacing agent works on wet ignition for "wet start." Packed in 14 OZ. / 414 ml. non-aerosol, hand pump, spray bottle. Part No. L0188-067.

X-357 Lubricant: A special extreme pressure lubricant that penetrates and adheres. Water resistant and unaffected by temperature extremes. For use on pintle hooks, slide axles, open gears, fifth wheels. Contains moly-disulfide. Packed in handy 11 OZ. / 311.8 g. spray can. Part No. L0149-063.

Marine & Auto Guard: Multi-purpose penetrating oil. An excellent "wet start" product. Spray on wet plug wires and distributor cap. Outstanding moisture displacement properties. Prevents rust and corrosion. Excellent fogging oil. Packed in 12 OZ. / 340 g. spray can. Part No. L0774-063.

Food Machinery Grade Spray Lubricants: See page 13 for information on these lubricants.

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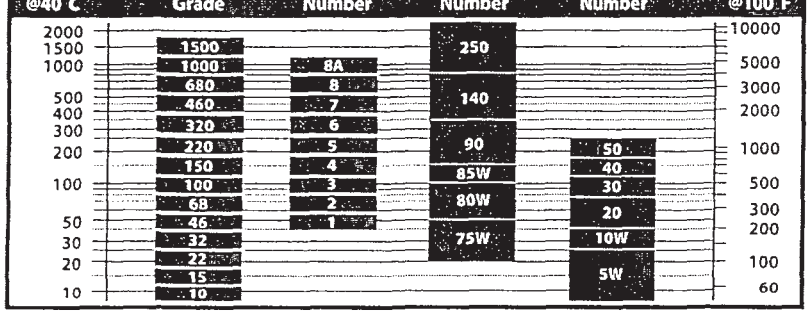
General Application Recommendations

The multitude of industrial machinery and construction equipment on the market today makes specific applications impossible to list here. It is best to refer to the OEM service manuals of the machinery for specific lubrication recommendations. Listed below are a few lubricants that will cover most general requirements. For additional information contact your local Lubriplate Distributor, Lubriplate District Manager (listed below) or Jim Girard, (800)733-4755.

APPLICATIONS	NORMAL TEMPERATURES	HIGH TEMPERATURES	LOW TEMPERATURES	FOOD MACHINERY GRADE NSF H-1 CLASS / FDA CFR 178.3570
GENERAL GREASE	1200-2 / SYN-1602	HIGH TEMP / 1552 / SYN-1602	MAG-1 / SYN-1602	FGL-1 / FGL-2 / SYNXTREME FG-2
GENERAL OIL	SPO-233 / SYN-LUBE-100	SPO-266 / SYN-LUBE-320	SPO-233 / SYN-LUBE-100	FMO-350AW / SFGO ULTRA-68
CENTRALIZED SYSTEMS / GREASE	930-AAA / 630-AAA / SYN-1600	930-AAA / SYN-1600	MAG-00 / 1550	FGL-0 / FGL-00 / SFL-0
CENTRALIZED SYSTEMS / OIL	SPO-233 / SYN-LUBE-100	SPO-277 / SYN-LUBE-460	SPO-222 / SYN-LUBE-68	FMO-350AW-500AW / SFGO ULTRA 68
GEAR BOXES (HELICAL, SPUR)	SPO-255 / SYN-LUBE-220	SPO-MG / SYN-LUBE-320	SPO-244 / SYN-LUBE-150	FMO-1100AW / SFGO ULTRA 220
GEAR BOXES (WORM)	SPO-277 / SYN-LUBE-460	SPO-288 / SYN-LUBE-680	SPO-MG / SYN-LUBE-320	FMO-3800AW / SFGO ULTRA 680
OPEN GEARS	GEAR SHIELD EXTRA HEAVY	GEAR SHIELD XTRA HEAVY	LOW TEMP GEAR SHIELD	PURE TAC
HYDRAULIC EQUIPMENT	HO-1 / HO-2 / SYN-LUBE-68	HO-2A / SYN-LUBE-100	LOW POUR HO / SFGO ULTRA-7	FMO-350AW / SFGO ULTRA 68
AIR COMPRESSORS (RECIPROCATING)	SYN-LUBE-68	SYN-LUBE-100	SYN-LUBE-32	SFGO ULTRA-68 or 100
AIR COMPRESSORS (ROTARY SCREW)	SYN-LUBE-46	SYN-LUBE-46	SYN-LUBE-32	SFGO ULTRA-46 or 68
HIGH SPEED BEARINGS (OIL)	HO-0 / SYN-LUBE-32	SPO-233 / SYN-LUBE-100	1 / SYN-LUBE-32	FMO-350AW / SFGO ULTRA-68
HIGH SPEED BEARINGS (GREASE)	EMB / POLY HP-2 / SYN-1602	1552 / POLY HP-2 / SYN-1602	MAG-1 / GR-132 / SYN-1602	FGL-1 / SFL-1
LOW SPEED BEARINGS (OIL)	SPO-244 / SYN-LUBE-150	SPO-255 / SYN-LUBE-220	SPO-233 / SYN-LUBE-100	FMO-500AW / SFGO ULTRA 100
LOW SPEED BEARINGS (GREASE)	1242 / 1552 / SYN-1602	HIGH TEMP / 1552 / SYN-1602	MAG-1 / SYN-1602	FGL-2 / SFL-2
WHEEL BEARINGS (GREASE)	1552 / SYN-1602	1552 / SYN-1602	1552 / SYN-1602	FGL-1 / SYNXTREME FG-2
SLIDES / CAMS	1241 / 1242 / SYN-1602	1444 / SYN-1602	MAG-1 / SYN-1602	FGL-2 / SYNXTREME FG-2
MIST SYSTEMS	Mist Oil / SYN-LUBE-100	Mist Oil / SYN-LUBE-100	Rock Drill Oil 10R / SYN-LUBE-32	FMO-350AW / SFGO ULTRA-68
WIRE ROPE / CABLES / CHAINS	Chain & Cable Fluid	SPO-288	Chain & Cable Fluid	FMO-350AW / SFGO ULTRA-7
RUST / CORROSION PREVENTION	Chain & Cable Fl / SFGO ULTRA-7	Chain & Cable Fl / SFGO ULTRA-7	Chain & Cable Fl / SFGO ULTRA-7	FMO-350AW / SFGO ULTRA-7
ENGINE REBUILDING	105	105	105	-
MOLY GREASE (MOS_2)	3000	3000	3000W	-
REFRIGERATION COMPRESSORS	68N OR 68P Refrigeration Compressor Oil - Consult Data Sheet 5-23 and 5-23A for details.			RCO-68

Petroleum Based Product Synthetic Based Product

Oil Viscosity Classification Comparisons



NLGI Grease Classifications

NLGI NO.	DESCRIPTION	WORKED PENETRATION ASTM @ 77°F / 25°C
000	SEMI-FLUID	445 - 475
00	SEMI-FLUID	400 - 430
0	VERY-SOFT	355 - 385
1	SOFT	310 - 340
2	MEDIUM SOFT	265 - 295
3	MEDIUM	220 - 250
4	HARD	175 - 205
5-6	VERY HARD	85 - 160

Eastern Region Managers:

Dick Schettino - Eastern Regional Manager
800-733-4755 / Dicks@lubriplate.com

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F.IK000073

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972-398-3913 (FAX)
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800-733-4755 - TimC@lubriplate.com

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610-398-2382 smorrow@lubriplate.com

Technical Service Center: Iliana Vargas - Director of Technology
800-733-4755 - ivargas@lubriplate.com

Special Projects Manager: Hubert Wrocklage -
314-894-2862 - Cell: 314-221-0814
hwrocklage@lubriplate.com

Toledo Sales Coordinator: Mike Kontak - 419-691-2491
MikeK@lubriplate.com

Chief International Representative: Charles Husko - 1-813-907-3027
c.husko@att.net

LUBRIPLATE DIVISION / FISKE BROTHERS REFINING COMPANY
129 LOCKWOOD STREET / NEWARK, NJ 07105 / PHONE 800-733-4755 / FAX 800-347-5329
TOLEDO, OH OFFICE / PHONE 419-691-2491 / FAX 800-347-5348

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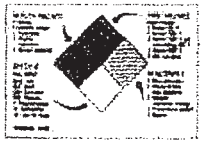

Material Safety Data Sheet

Name H0-3 LUBRIPLATE HYDRAULIC OIL **MSDS** cgwhn
Company FISKE BROS REFINING CO **FSC** 9150

MSDS Safety Information

FSC: 9150
MSDS Date: 01/01/1996
MSDS Num: CGWHN
LIIN: 00F032623
Product ID: H0-3 LUBRIPLATE HYDRAULIC OIL
MFN: 02
Responsible Party
Cage: 73219
Name: FISKE BROS REFINING CO
Address: 129 LOCKWOOD ST
City: NEWARK NJ 07105-4720
Info Phone Number: 201-589-9150
Emergency Phone Number: 201-589-9150
Preparer's Name: JAMES R KONTAK
Review Ind: Y
Published: Y

Preparer Co. when other than Responsible Party Co.

Cage: 73219
Name: FISKE BROS REFINING CO
Address: 129 LOCKWOOD ST
City: NEWARK NJ 07105-4720

Contractor Summary

Cage: 73219
Name: FISKE BROS REFINING CO
Address: 129 LOCKWOOD ST
City: NEWARK NJ 07105-4720
Phone: 201-589-9150

Ingredients

Name: MINERAL OIL

Name: ADDITIVES

Name: ZINC COMPOUND
% Wt: ANDlt;2

Health Hazards Data

FJK000074

Route Of Entry Inds - Inhalation: YES
Skin: NO
Ingestion: YES
Carcinogenicity Inds - NTP: NO
IARC: NO
OSHA: NO
Effects of Exposure: EYES: IRRITATION. SKIN: PROLONGED/REPEATED CONTACT MAY CAUSE IRRITATION. INGESTION: LOW TOXIC. MINUTE AMOUNTS ASPIRATED INTO THE LUNGS DURING INGESTION MAY CAUSE MILD TO SEVERE PULMONARY INJURY. IF IN JECTED BY HIGH PRESSURE UNDER SKIN, DELAY OF MEDICAL ATTENTION MAY CAUSE LOSS

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OF AFFECTED PART OF THE BODY.
Explanation Of Carcinogenicity: NONE
Signs And Symptions Of Overexposure: IRRITATION
First Aid: EYES: FLUSH W/CLEAR WATER FOR 15 MINS. SKIN: WASH W/SOAP ANDamp; WATER. INHALATION: IMMEDIATELY REMOVE FROM EXPOSURE. INGESTION: DON'T INDUCE VOMITING. OBTAIN MEDICAL ATTENTION IN ALL CASES.

Handling and Disposal

Spill Release Procedures: RECOVER LIQUID, WASH REMAINDER W/SUITABLE PETROLEUM SOLVENT/ADD ABSORBENT. KEEP PETROLEUM OUT OF SEWERS ANDamp; WATER COURSES.
Waste Disposal Methods: DISPOSE OF ABSORBED MATERIAL AT AN APPROVED WASTE DISPSOAL FACILITY/SITE IAW/LOCAL, STATE ANDamp; FEDERAL REGULATIONS.
Handling And Storage Precautions: KEEP CONTAINERS CLOSED WHEN NOT IN USE. DON'T HANDLE/STORE NEAR HEAT, SPARKS, FLAME/STRONG OXIDANTS.
Other Precautions: AVOID BREATHING OIL MIST.

Fire and Explosion Hazard Information

Flash Point Method: COC
Flash Point Text: 415-480F
Lower Limits: 0.9
Upper Limits: 7
Extinguishing Media: FOAM, DRY CHEMICAL, CO2/WATER SPRAY (FOG)
Fire Fighting Procedures: COOL EXPOSED CONTAINERS W/WATER. USE AIR SUPPLIED BREATHING EQUIPMENT FOR ENCLOSED/CONFINED SPACES.
Unusual Fire/Explosion Hazard: DON'T STORE/MIX W/STRONG OXIDANTS. EMPTY CONTAINERS RETAIN RESIDUE. DON'T CUT, DRILL, GRIND/WELD AS THEY MAY EXPLODE.

Control Measures

Respiratory Protection: NORMALLY NOT NEEDED
Ventilation: LOCAL EXHAUST: USED TO CAPTURE FUMES ANDamp; VAPORS.
Protective Gloves: OIL-RESISTANT
Eye Protection: GOGGLES
Other Protective Equipment: OIL RESISTANT APRON
Work Hygienic Practices: REMOVE/LAUNDER CONTAMINATED CLOTHING BEFORE REUSE. CLEANS THOROUGHLY AFTER CONTACT.

Physical/Chemical Properties

B.P. Text: ANDgt;550F
Vapor Pres: ANDlt;0.01
Vapor Density: ANDgt;5
Spec Gravity: 0.87-0.89
Solubility in Water: NEGLIGIBLE
Appearance and Odor: TRANSPARENT AMBER LIQUID W/MINERAL OIL ODOR

Reactivity Data

Stability Indicator: YES
Stability Condition To Avoid: HEAT, SPARKS, FLAME
Materials To Avoid: STRONG OXIDANTS; LIQUID CHLORINE, CONCENTRATED OXYGEN
Hazardous Decomposition Products: SULFUR DIOXIDE; CO
Hazardous Polymerization Indicator: NO

Toxicological Information

Ecological Information

MSDS Transport Information

FJK000075

Regulatory Information

Other Information

HAZCOM Label

932110092

Product ID: HO-3 LUBRIPLATE HYDRAULIC OIL
Cage: 73219
Company Name: FISKE BROS REFINING CO
Street: 129 LOCKWOOD ST
City: NEWARK NJ
Zipcode: 07105-4720
Health Emergency Phone: 201-589-9150
Label Required IND: Y
Date Of Label Review: 10/12/1999
Status Code: A
Origination Code: G
Hazard And Precautions: EYES: IRRITATION. SKIN: PROLONGED/REPEATED CONTACT MAY CAUSE IRRITATION. INGESTION: LOW TOXIC. MINUTE AMOUNTS ASPIRATED INTO THE LUNGS DURING INGESTION MAY CAUSE MILD TO SEVERE PULMONARY INJURY. IF IN JECTED BY HIGH PRESSURE UNDER SKIN, DELAY OF MEDICAL ATTENTION MAY CAUSE LOSS OF AFFECTED PART OF THE BODY.

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FISKE BROS REFINING -- 115 LUBRIPLATE - PETROLEUM LUBRICATING GREASE
MATERIAL SAFETY DATA SHEET
NSN: 915000F046313
Manufacturer's CAGE: 73219
Part No. Indicator: A
Part Number/Trade Name: 115 LUBRIPLATE

==========

General Information

==========

Item Name: PETROLEUM LUBRICATING GREASE
Company's Name: FISKE BROS REFINING CO
Company's Street: 129 LOCKWOOD ST
Company's City: NEWARK
Company's State: NJ
Company's Country: US
Company's Zip Code: 07105-4720
Company's Emerg Ph #: 201-589-9150
Company's Info Ph #: 201-589-9150
Record No. For Safety Entry: 001
Tot Safety Entries This Stk#: 001
Status: SE
Date MSDS Prepared: 01JAN94
Safety Data Review Date: 06MAR96
MSDS Preparer's Name: JAMES R KONTAK
Preparer's Company: FISKE BROS REFINING CO
Preparer's St Or P. O. Box: 129 LOCKWOOD ST
Preparer's City: NEWARK
Preparer's State: NJ
Preparer's Zip Code: 07105-4720
MSDS Serial Number: BYMTK

==========

Ingredients/Identity Information

==========

Proprietary: NO
Ingredient: CALCIUM SOAP
Ingredient Sequence Number: 01
NIOSH (RTECS) Number: 1002172CS

Proprietary: NO
Ingredient: MINERAL OIL
Ingredient Sequence Number: 02
NIOSH (RTECS) Number: 1002836MO

Proprietary: NO
Ingredient: ADDITIVES
Ingredient Sequence Number: 03
NIOSH (RTECS) Number: 1000144AD

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Physical/Chemical Characteristics

Appearance And Odor: SMOOTH, WHITE GREASE W/MINERAL OIL ODOR
Boiling Point: >550F
Vapor Pressure (MM Hg/70 F): <0.01
Vapor Density (Air=1): >5
Specific Gravity: 0.89-0.93
Evaporation Rate And Ref: (BU AC=1): <0.01
Solubility In Water: NEGLIGIBLE

Fire and Explosion Hazard Data

Flash Point: 360F
Flash Point Method: COC
Lower Explosive Limit: 0.9
Upper Explosive Limit: 7
Extinguishing Media: FOAM, DRY CHEMICAL, CO2/WATER SPRAY
Special Fire Fighting Proc: USE AIR-SUPPLIED BREATHING EQUIPMENT FOR ENCLOSED/CONFINED AREAS. COOL EXPOSED CONTAINERS W/WATER.
Unusual Fire And Expl Hazrds: EMPTY CONTAINERS RETAIN RESIDUE. DON'T CUT, DRILL, GRIND/WELD AS THEY MAY EXPLODE.

Reactivity Data

Stability: YES
Cond To Avoid (Stability): HEAT, SPARKS, FLAME.
Materials To Avoid: STRONG OXIDANTS LIKE LIQUID CHLORINE, CONCENTRATED OXYGEN.
Hazardous Decomp Products: SULFUR DIOXIDE INCOMPLETE COMBUSTION MAY FORM CO.
Hazardous Poly Occur: NO

Health Hazard Data

Route Of Entry - Inhalation: YES
Route Of Entry - Skin: NO
Route Of Entry - Ingestion: NO
Health Haz Acute And Chronic: EYES/SKIN: IRRITATION. INHALATION: MINUTE AMOUNTS ASPIRATED INTO LUNGS MAY CAUSE MILD TO SEVERE PULMONARY INJURY.
Carcinogenicity - NTP: NO
Carcinogenicity - IARC: NO
Carcinogenicity - OSHA: NO
Explanation Carcinogenicity: NONE
Signs/Symptoms Of Overexp: IRRITATION.
Emergency/First Aid Proc: EYES: FLUSH W/WATER FOR 15 MINS. SKIN: WASH W/SOAP & WARM WATER. IF INJECTED BY HIGH PRESSURE, REGARDLESS OF THE APPEARANCE/IT'S SIZE. CONTACT PHYSICIAN IMMEDIATELY. DELAY MAY CAUSE LOSS OF AFFECTED BODY PARTS. INHALATION: REMOVE TO FRESH AIR. INGESTION: DON'T INDUCE VOMITING. OBTAIN MEDICAL ATTENTION IN ALL CASES.

Precautions for Safe Handling and Use

Steps If Matl Released/Spill: SCRAPE UP GREASE, WASH REMAINDER W/SUITABLE PETROLEUM SOLVENT/ADD ABSORBENT. KEEP PETROLEUM PRODUCTS OUT OF SEWERS & WATER COURSES. ADVISE AUTHORITIES IF PRODUCT HAS ENTERED/MAY ENTER SEWERS & WATER COURSES.
Waste Disposal Method: DISPOSE OF IAW/FEDERAL, STATE & LOCAL REGULATIONS. DISPOSE OF ABSORBED MATERIAL AT AN APPROVED WASTE DISPOSAL FACILITY/SITE.
Precautions-Handling/Storing: KEEP CONTAINERS CLOSED WHEN NOT IN USE. DON'T HANDLE/STORE NEAR HEAT, SPARKS, FLAME/STRONG OXIDANTS.
Other Precautions: EXPOSURE TO LIQUIDS, VAPORS, MISTS & FUMES SHOULD BE MINIMIZED.

Control Measures

Respiratory Protection: NORMALLY NOT NEEDED
Ventilation: LOCAL EXHAUST: USED TO CAPTURE FUMES AND VAPORS
Protective Gloves: OIL-RESISTANT
Eye Protection: GOGGLES
Other Protective Equipment: OIL-RESISTANT APRON
Work Hygienic Practices: REMOVE/LAUNDER CONTAMINATED CLOTHING BEFORE REUSE. WASH THOROUGHLY AFTER HANDLING.
Suppl. Safety & Health Data: THE TLV FOR OIL MIST IN AIR IS 5 MG/CUM.

Transportation Data

Disposal Data

Label Data

Label Required: YES
Label Status: G
Common Name: 115 LUBRIPLATE
Special Hazard Precautions: EYES/SKIN: IRRITATION. INHALATION: MINUTE AMOUNTS ASPIRATED INTO LUNGS MAY CAUSE MILD TO SEVERE PULMONARY INJURY. IRRITATION.
Label Name: FISKE BROS REFINING CO
Label Street: 129 LOCKWOOD ST
Label City: NEWARK
Label State: NJ
Label Zip Code: 07105-4720
Label Country: US
Label Emergency Number: 201-589-9150

FISKE BROS REFINING CO -- HO-0 LUBRIPLATE HYDRAULIC OIL -- 9150-00F003874

==========

MSDS Safety Information

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FSC: 9150
MSDS Date: 01/01/1996
MSDS Num: CGWHK
LIIN: 00F003874
Tech Review: 04/22/1998
Product ID: HO-0 LUBRIPLATE HYDRAULIC OIL
Responsible Party
Cage: 73219
Name: FISKE BROS REFINING CO
Address: 129 LOCKWOOD ST
City: NEWARK NJ 07105-4720 US
Info Phone Number: 201-589-9150
Emergency Phone Number: 201-589-9150
Preparer's Name: JAMES R KONTAK

==========

Preparer Co. when other than Responsible Party Co.

==========

Cage: 73219
Assigned Ind: N
Name: FISKE BROS REFINING CO
Address: 129 LOCKWOOD ST
City: NEWARK NJ 07105-4720

==========

Contractor Summary

==========

Cage: 73219
Name: FISKE BROS REFINING CO
Address: 129 LOCKWOOD ST
City: NEWARK NJ 07105-4720 US
Phone: 201-589-9150

==========

Ingredients

==========

Name: MINERAL OIL

Name: ADDITIVES

Name: ZINC COMPOUND
% by Wt: <2

FJK000080

==========

Health Hazards Data

==========

Route Of Entry Inds - Inhalation: YES
Skin: NO
Ingestion: YES
Carcinogenicity Inds - NTP: NO
IARC: NO
OSHA: NO
Effects of Exposure: EYES: IRRITATION. SKIN: PROLONGED/REPEATED CONTACT MAY CAUSE IRRITATION. INGESTION: LOW TOXIC. MINUTE AMOUNTS ASPIRATED INTO THE LUNGS DURING INGESTION MAY CAUSE MILD TO SEVERE PULMONARY INJURY. IF IN JECTED BY HIGH PRESSURE UNDER SKIN, DELAY OF MEDICAL ATTENTION MAY CAUSE LOSS OF AFFECTED PART OF THE BODY.
Explanation Of Carcinogenicity: NONE
Signs And Symptions Of Overexposure: IRRITATION
First Aid: EYES: FLUSH W/CLEAR WATER FOR 15 MINS. SKIN: WASH W/SOAP & WATER. INHALATION: IMMEDIATELY REMOVE FROM EXPOSURE. INGESTION: DON'T INDUCE VOMITING. OBTAIN MEDICAL ATTENTION IN ALL CASES.

==========

Handling and Disposal
==========
Spill Release Procedures: RECOVER LIQUID, WASH REMAINDER W/SUITABLE PETROLEUM SOLVENT/ADD ABSORBENT. KEEP PETROLEUM OUT OF SEWERS & WATER COURSES.
Waste Disposal Methods: DISPOSE OF ABSORBED MATERIAL AT AN APPROVED WASTE DISPSOAL FACILITY/SITE IAW/LOCAL, STATE & FEDERAL REGULATIONS.
Handling And Storage Precautions: KEEP CONTAINERS CLOSED WHEN NOT IN USE. DON'T HANDLE/STORE NEAR HEAT, SPARKS, FLAME/STRONG OXIDANTS.
Other Precautions: AVOID BREATHING OIL MIST.
==========
Fire and Explosion Hazard Information
==========
Flash Point Method: COC
Flash Point Text: 415-480F
Lower Limits: 0.9
Upper Limits: 7
Extinguishing Media: FOAM, DRY CHEMICAL, CO2/WATER SPRAY (FOG)
Fire Fighting Procedures: COOL EXPOSED CONTAINERS W/WATER. USE AIR SUPPLIED BREATHING EQUIPMENT FOR ENCLOSED/CONFINED SPACES.
Unusual Fire/Explosion Hazard: DON'T STORE/MIX W/STRONG OXIDANTS. EMPTY CONTAINERS RETAIN RESIDUE. DON'T CUT, DRILL, GRIND/WELD AS THEY MAY EXPLODE.
==========
Control Measures
==========
Respiratory Protection: NORMALLY NOT NEEDED
Ventilation: LOCAL EXHAUST: USED TO CAPTURE FUMES & VAPORS.
Protective Gloves: OIL-RESISTANT
Eye Protection: GOGGLES
Other Protective Equipment: OIL RESISTANT APRON
Work Hygienic Practices: REMOVE/LAUNDER CONTAMINATED CLOTHING BEFORE REUSE. CLEANS THOROUGHLY AFTER CONTACT.
==========
Physical/Chemical Properties
==========
B.P. Text: >550F
Vapor Pres: <0.01
Vapor Density: >5
Spec Gravity: 0.87-0.89
Solubility in Water: NEGLIGIBLE
Appearance and Odor: TRANSPARENT AMBER LIQUID W/MINERAL OIL ODOR
==========
Reactivity Data
==========
Stability Indicator: YES
Stability Condition To Avoid: HEAT, SPARKS, FLAME
Materials To Avoid: STRONG OXIDANTS; LIQUID CHLORINE, CONCENTRATED OXYGEN
Hazardous Decomposition Products: SULFUR DIOXIDE; CO
Hazardous Polymerization Indicator: NO
==========
Toxicological Information
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Ecological Information
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MSDS Transport Information
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Regulatory Information
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Other Information
==========
==========
HAZCOM Label
==========
Product ID: HO-0 LUBRIPLATE HYDRAULIC OIL
Cage: 73219
Company Name: FISKE BROS REFINING CO
Street: 129 LOCKWOOD ST
City: NEWARK NJ
Zipcode: 07105-4720 US
Health Emergency Phone: 201-589-9150
Date Of Label Review: 10/12/1999
Hazard And Precautions: EYES: IRRITATION. SKIN: PROLONGED/REPEATED CONTACT MAY CAUSE IRRITATION. INGESTION: LOW TOXIC. MINUTE AMOUNTS ASPIRATED INTO THE LUNGS DURING INGESTION MAY CAUSE MILD TO SEVERE PULMONARY INJURY. IF IN JECTED BY HIGH PRESSURE UNDER SKIN, DELAY OF MEDICAL ATTENTION MAY CAUSE LOSS OF AFFECTED PART OF THE BODY.
==========
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Material Safety Data Sheet

SECTION I - Material Identity
SECTION II - Manufacturer's Information
SECTION III - Physical/Chemical Characteristics
SECTION IV - Fire and Explosion Hazard Data
SECTION V - Reactivity Data
SECTION VI - Health Hazard Data
SECTION VII - Precautions for Safe Handling and Use
SECTION VIII - Control Measures
SECTION IX - Label Data
SECTION X - Transportation Data
SECTION XI - Site Specific/Reporting Information
SECTION XII - Ingredients/Identity Information

SECTION I - Material Identity

Item Name	
Part Number/Trade Name	LUBRIPLATE "100"SERIES #105
National Stock Number	9150000584452
CAGE Code	73219
Part Number Indicator	A
MSDS Number	89095
HAZ Code	B

SECTION II - Manufacturer's Information

Manufacturer Name	FISKE BROTHERS REFINING COMPANY
P.O. Box	N/K
Street	129 LOCKWOOD STREET
City	NEWARK
State	NJ
Country	US
Zip Code	07105-4720
Emergency Phone	201-589-9150
Information Phone	201-589-9150

FJK000083

MSDS Preparer's Information

MSDS Preparer Name	ROBERT J.SIBILIA
Date MSDS Prepared/Revised	01JUN89

932110100

Date of Technical Review	15FEB90
Active Indicator	N
Item Manager	CX

Alternate Vendors

Vendor #1 Name	LUBRICANT PACKAGING SUPPLY COMPANY
Vendor #1 CAGE	8A122
Vendor #5 CAGE	BHJJP

SECTION III - Physical/Chemical Characteristics

Specification Number	N/R
Specification Type/Grade/Class	N/R
Hazard Storage Compatibility Code	N1-F6
NRC License Number	N/R
Net Propellant Weight (Ammo)	N/R
Appearance/Odor	SMOOTH,WHITE GREASE WITH MINERAL OIL ODOR
Boiling Point	>550F,>288C
Melting Point	SEMI-SOLID
Vapor Pressure	<0.01
Vapor Density	>5.0
Specific Gravity	0.89-0.93
Evaporation Rate	<0.01(N-BUTYL ACETATE =)
Solubility in Water	NEGLIGIBLE
Percent Volatiles by Volume	N/K
Chemical pH	N/K
Container Pressure Code	4
Temperature Code	8
Product State Code	U

SECTION IV - Fire and Explosion Hazard Data

Flash Point	360
Flash Point Method	UNK
Lower Explosion Limit	0.9
Upper Explosion Limit	7.0
Extinguishing Media	USE CARBON DIOXIDE, FOAM, DRY CHEMICAL, OR WATER FOG
Special Fire Fighting Procedures	FIRE FIGHTERS SHOULD USE NIOSH APPROVED SCBA & FULL PROTECTIVE EQUIPMENT WHEN FIGHTING CHEMICAL FIRE. USE WATER SPRAY TO COOL NEARBY CONTAINERS EXPOSED TO FIRE
Unusual Fire/Explosion Hazards	MAY EXPLODE OR EXCESSIVE HEAT MAY CAUSE PRODUCTION OF HAZARDOUS DECOMPOSITION PRODUCTS

SECTION V - Reactivity Data

Stability	YES
Stability Conditions to Avoid	HIGH TEMPERATURES
Materials to Avoid	STRONG OXIDIZING AGENTS,LIQUID CHLORINE,OR CONC.OXYGEN
Hazardous Decomposition Products	A MIXTURE OF AIRBORNE SOLID, LIQUID PARTICULATES AND GASES (CO) WILL EVOLVE WHEN THIS MATERIAL UNDERGOES COMBUSTION
Hazardous Polymerization	NO
Polymerization Conditions to Avoid	NOT APPLICABLE
LD50 - LD50 Mixture	N/K

SECTION VI - Health Hazard Data

Route of Entry: Skin	YES
Route of Entry: Ingestion	YES
Route of Entry: Inhalation	NO
Health Hazards - Acute and Chronic	ACUTE: EYE:MAY BE MILDLY IRRITATING. SKIN:RELEASE DURING HIGH PRESSURE USAGE MAY RESULT IN INJECTION OF OIL INTO THE SKIN CAUSING IRRITAION.INHALATION:NOT EXPECTED TO BE A RELEVANT ROUTE OF EXPOSURE; HIGH TEMPERATURE VAPORS IRRITATE RESPIRATORY TRACT. INGESTION:LOW LEVEL OF TOXICITY. CHRONIC: SKIN DISORDERS
Carcinogenity: NTP	NO
Carcinogenity: IARC	NO
Carcinogenity: OSHA	NO
Explanation of Carcinogenity	DATA PER MSDS
Symptoms of Overexposure	DATA PER MSDS
Medical Cond. Aggrevated by Exposure	PRE-EXISTING SKIN DISORDERS MAY BE AGGRAVATED BY EXPOSURE TO THIS PRODUCT
Emergency/First Aid Procedures	INHALATION: REMOVE TO FRESH AIR. GIVE OXYGEN IF BREATHING IS DIFFICULT. GET MEDICAL ATTENTION. EYE: FLUSH WITH WATER FOR 15 MINUTES WHILE HOLDING EYELIDS OPEN. GET MEDICAL ATTENTION. SKIN: WASH WITH SOAP & WATER/WATERLESS CLEANER. REMOVE CONTAMINATED CLOTHING. IF IRRITATION PERSISTS, GET MEDICAL ATTENTION. INGESTION: DO NOT INDUCE VOMITING. IN GENERAL, NO TREATMENT IS REQUIRED. GET MEDICAL ADVICE

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SECTION VII - Precautions for Safe Handling and Use

Steps if Material Released/Spilled	SCOOP UP EXCESS GREASE. CLEAN AREA WITH APPROPRIATE CLEANER
Neutralizing Agent	NONE SPECIFIED BY MANUFACTURER

Waste Disposal Method	DISPOSE OF IN AN APPROPRIATE DISPOSAL FACILITY IN COMPLIANCE WITH LOCAL REGULATIONS
Handling and Storage Precautions	RE IN A COOL, DRY PLACE WITH ADEQUATE VENTILATION. KEEP CONTAINERS TIGHTLY CLOSED WHEN NOT IN USE. KEEP AWAY FROM OPEN FLAMES & HIGH TEMPERATURES. MI
Other Precautions	MINIMIZE SKIN CONTACT. WASH WITH SOAP & WATER BEFORE EATING, DRINKING, SMOKING OR USING TOILET FACILITIES. LAUNDER CONTAMINATED CLOTHING BEFORE REUSE. PROPERLY DISPOSE OF CONTAMINATED LEATHER ARTICLES (SHOES) THAT CAN NOT BE DECONTAMINATED

SECTION VIII - Control Measures

Respiratory Protection	RESPIRATORY PROTECTION NOT ORDINARILY REQUIRED.USE NIOSH/MSHA APPROVED RESPIRATOR FOR ORGANIC VAPORS/MIST IF AVOVE PEL/TLV
Ventilation	NONE REQUIRED,USE LOCAL/GENERAL TO MAINTAIN PEL/TLV IN CASE OF MIST/VAPORS
Protective Gloves	RUBBER AS REQUIRED
Eye Protection	SAFETY GLASSES RECOMMENDED
Other Protective Equipment	EYE WASH STATION WORK CLOTHING AND APRON AS REQUIRED
Work Hygenic Practices	OBSERVE GOOD PERSONAL HYGIENE PRACTICES AND RECOMMENDED PROCEDURES. DO NOT WEAR CONTAMINATED CLOTHING OR FOOTWEAR
Supplemental Health/Safety Data	DO NOT GET IN EYES OR ON CLOTHING
Disposal Code	O

SECTION IX - Label Data

Protect Eye	NO
Protect Skin	NO
Protect Respiratory	NO
Chronic Indicator	UNKNOWN
Contact Code	UNKNOWN
Fire Code	UNKNOWN
Health Code	UNKNOWN
React Code	UNKNOWN
Specific Hazard and Precaution	ACUTE: EYE:MAY BE MILDLY IRRITATING. SKIN:RELEASE DURING HIGH PRESSURE USAGE MAY RESULT IN INJECTION OF OIL INTO THE SKIN CAUSING IRRITAION.INHALATION:NOT EXPECTED TO BE A RELEVANT ROUTE OF EXPOSURE; HIGH TEMPERATURE VAPORS IRRITATE

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RESPIRATORY TRACT. INGESTION:LOW LEVEL OF TOXICITY. CHRONIC: SKIN DISORDERS. DATA PER MSDS

SECTION X - Transportation Data

Container Quantity	10
Unit of Measure	OZF

SECTION XI - Site Specific/Reporting Information

Volatile Organic Compounds (P/G)	0
Volatile Organic Compounds (G/L)	0

SECTION XII - Ingredients/Identity Information

Ingredient #	01
Ingredient Name	CALCIUM SOAP
CAS Number	N/K
NIOSH Number	1002172CS
Proprietary	NO
Percent	N/K
OSHA PEL	NOT ESTABLISHED
ACGIH TLV	NOT ESTABLISHED
Recommended Limit	NOT ESTABLISHED
Ingredient #	02
Ingredient Name	MINERAL OIL
CAS Number	N/K
NIOSH Number	1003240MO
Proprietary	NO
Percent	N/K
OSHA PEL	NOT ESTABLISHED
ACGIH TLV	NOT ESTABLISHED
Recommended Limit	NOT ESTABLISHED
Ingredient #	03
Ingredient Name	ADDITIVES
CAS Number	UNKNOWN
NIOSH Number	1000144AD
Proprietary	NO
Percent	N/K
OSHA PEL	UNKNOWN
ACGIH TLV	UNKNOWN
Recommended Limit	NOT ESTABLISHED
Ingredient #	04
Ingredient Name	(ZNCPD) ZINC COMPOUND,(CONTAINING < 5% OF ZN)
CAS Number	N/K
NIOSH Number	1004580ZC

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Proprietary	NO
Percent	N/K
OSHA PEL	NOT ESTABLISHED
ACGIH TLV	NOT ESTABLISHED
Recommended Limit	NOT ESTABLISHED

Get the most comprehensive
MSDS/HazCom program on the market!

Material Safety Data Sheet

SECTION I - Material Identity
SECTION II - Manufacturer's Information
SECTION III - Physical/Chemical Characteristics
SECTION IV - Fire and Explosion Hazard Data
SECTION V - Reactivity Data
SECTION VI - Health Hazard Data
SECTION VII - Precautions for Safe Handling and Use
SECTION VIII - Control Measures
SECTION IX - Label Data
SECTION X - Transportation Data
SECTION XI - Site Specific/Reporting Information
SECTION XII - Ingredients/Identity Information

SECTION I - Material Identity

Item Name	
Part Number/Trade Name	LUBRIPLATE AIR TOOL LUBRICANT
National Stock Number	9150L400653F
CAGE Code	73219
Part Number Indicator	A
MSDS Number	184026
HAZ Code	B

SECTION II - Manufacturer's Information

Manufacturer Name	FISKE BROS REFINING CO
P.O. Box	N/K
Street	129 LOCKWOOD ST
City	NEWARK
State	NJ
Country	US
Zip Code	07105-4720
Emergency Phone	201-589-9150
Information Phone	201-589-9150

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MSDS Preparer's Information

Street	129 LOCKWOOD ST
City	NEWARK

932110106

State	NJ
Zip Code	07105-4720
Date MSDS Prepared/Revised	01FEB95
Date of Technical Review	04APR96
Active Indicator	N

Alternate Vendors

Vendor #5 CAGE	BZBXP

SECTION III - Physical/Chemical Characteristics

Appearance/Odor	AMBER OIL W/SWEET ODOR
Boiling Point	>550F
Melting Point	LIQUID
Vapor Pressure	<5
Vapor Density	>5
Specific Gravity	0.88
Decomposition Temperature	N/K
Evaporation Rate	N/K
Solubility in Water	NEGLIGIBLE
Percent Volatiles by Volume	N/K
Chemical pH	N/K
Corrosion Rate	N/K
Container Pressure Code	4
Temperature Code	8
Product State Code	U

SECTION IV - Fire and Explosion Hazard Data

Flash Point Method	COC
Lower Explosion Limit	0.9
Upper Explosion Limit	7
Extinguishing Media	FOAM, DRY CHEMICAL, CO2, WATER SPRAY (FOG)
Special Fire Fighting Procedures	COOL EXPOSED CONTAINERS W/WATER. USE AIR-SUPPLIEDBREATHING EQUIPMENT FOR ENCLOSED/CONFINED SPACES
Unusual Fire/Explosion Hazards	DON'T CUT, DRILL, GRIND/WELD AS THEY MAY EXPLODE

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SECTION V - Reactivity Data

Stability	YES
Stability Conditions to Avoid	EXCESSIVE HEAT, SPARKS/OPEN FLAMES
Materials to Avoid	STRONG OXIDANTS, LIQUID CHLORINE, CONCENTRATED OXYGEN
Hazardous Decomposition Products	SULFUR DIOXIDE. IF INCOMPLETE COMBUSTION, CO2 & HYDROGEN CHLORIDE

Hazardous Polymerization	NO
Polymerization Conditions to Avoid	N/K

SECTION VI - Health Hazard Data

Route of Entry: Skin	NO
Route of Entry: Ingestion	NO
Route of Entry: Inhalation	NO
Health Hazards - Acute and Chronic	SKIN/EYES: PROLONGED/REPEATEDCONTACT MAY CAUSE IRRITATION. EXPOSURE TO LIQUIDS, VAPORS, MISTS & FUMES SHOULD BE MINIMIZED. PRODUCT HAS A LOW ORDER OF ACUTE ORAL TOXICITY
Carcinogenity: NTP	NO
Carcinogenity: IARC	NO
Carcinogenity: OSHA	NO
Explanation of Carcinogenity	NONE
Symptoms of Overexposure	IRRITATION
Medical Cond. Aggrevated by Exposure	N/K
Emergency/First Aid Procedures	EYES: FLUSH W/CLEAR WATER FOR 15 MINS. SKIN: WASHW/SOAP & WARM WATER. INHALATION: REMOVE TO FRESH AIR. INGESTION: DON'T INDUCE VOMITING. OBTAIN MEDICAL ATTENTION IN ALL CASES

SECTION VII - Precautions for Safe Handling and Use

Steps if Material Released/Spilled	HANDLE AS AN OIL SPILL. AVOID BREATHING VAPORS/MIST. USE ADEQUATE VENTILATION
Neutralizing Agent	N/K
Waste Disposal Method	DISPOSE OF CHEMICAL WASTE IAW/FEDERAL, STATE & LOCAL REGULATIONS
Handling and Storage Precautions	STORE AT TEMPS <100F. STORE IN A COOL, DRY AREA IN TIGHTLY CLOSED CONTAINERS. USE ADEQUATE VENTILATION. AVOID EXCESSIVEHEAT, SPARKS/OPEN FLAMES
Other Precautions	AVOID PROLONGED/REPEATED SKIN CONTACT/BREATHING OIL MIST. NORMAL HYGIENIC & SAFETY PRECAUTIONS SHOULD BE OBSERVED WHEN HANDLING CHEMICALS. DON'T STORE/MIX W/STRONG OXIDANTS. EMPTY CONTAINERS RETAIN RESIDUE

SECTION VIII - Control Measures

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Respiratory Protection	IF CONCENTRATED VAPORS ARE PRESENT & ADEQUATE VENTILATION IN UNAVAILABLE, USE PROPER RESPIRATOR FOR ORGANIC VAPORS

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Ventilation	LOCAL EXHAUST/MECHANICAL (GENERAL)
Protective Gloves	PLASTIC/RUBBER
Eye Protection	CHEMICAL SPLASH GOGGLES
Other Protective Equipment	AIR MONITORING SHOULD BE PERFORMED IF OPERATIONS CAUSE AIR CONCENTRATIONS APPROACHING PEL LIMITS

SECTION IX - Label Data

Protect Eye	NO
Protect Skin	NO
Protect Respiratory	NO
Chronic Indicator	UNKNOWN
Contact Code	UNKNOWN
Fire Code	UNKNOWN
Health Code	UNKNOWN
React Code	UNKNOWN

SECTION X - Transportation Data

Container Quantity	1
Unit of Measure	QT

SECTION XI - Site Specific/Reporting Information

Volatile Organic Compounds (P/G)	0
Volatile Organic Compounds (G/L)	0

SECTION XII - Ingredients/Identity Information

Ingredient #	1
Ingredient Name	O-DICHLOROBENZENE, 1,2-DICHLOROBENZENE (ORTHO)
CAS Number	95501
NIOSH Number	CZ4500000
Proprietary	NO
Percent	3
OSHA PEL	300 MG/CUM
ACGIH TLV	301 MG/CUM
Recommended Limit	50 PPM
Ingredient #	2
Ingredient Name	PETROLEUM LUBE OIL
CAS Number	1003
NIOSH Number	1010405LO
Proprietary	NO
Percent	0
OSHA PEL	N/K

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ACGIH TLV	N/K
Recommended Limit	N/K

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ANNUAL REPORT

by

Chief Engineer
S. A. LUBETKIN

to the

PASSAIC VALLEY SEWERAGE COMMISSIONERS

FJK000094

FOR THE YEAR

1973

932110112

Violation and Elimination - Fair Lawn Water Pollution Control Facilities, 2-01 Saddle River Road, Fair Lawn, N.J.
Intermittent (M. Tomaro)

This activated sludge plant treats an average daily flow of 2.7 million gallons per day and discharges its chlorinated effluent to Saddle River, a tributary of the Passaic River. The sludge is digested and dried in lagoons. The licensed operator is Donald Eelman. The Commissioners monitor the discharge from this plant routinely.

In 1973 of 47 samples taken 6 were unsatisfactory as follows:

May 17, 1973: Sample had a slightly high C.O.D., turbidity and suspended solids. Upon reporting this to the Chief Operator, the inspector was informed that on the morning of May 17, two aeration tanks were being cleaned, and therefore some activated sludge was carried over to the effluent from the temporarily overloaded remaining units. Things were back to normal the following day.

September 12, 26, October 24, 31 and November 8, 1973: These samples, generally speaking had a slightly high turbidity, suspended solids & B.O.D. and was explained by a plant "upset". It is to be noted that the samples for the remainder of the year were satisfactory.

Violation and Elimination - Fiske Bros. Refining Co. 129 Lockwood Street, Newark, N.J.
February 7, 1973 (J.McLaughlin)

While making routine inspections of his district , Inspector J. McLaughlin saw the hose coupling strap from a Tank Truck break, releasing approximately 60-75 gallons of bright stock oil into Esther St. The tank truck was owned by Tank Truck Rentals of Croydon, Pa. and was on lease to Chemical Leaman Tank Lines, Inc. of Downingtown, Pa. making a delivery to Fiske Bros.

The driver notified his terminal manager in Pennsylvania while Inspector Mc Laughlin contacted Mr. Louis De Nicola the terminal manager for Chemical Leaman in Newark. Mr. Di Nicola contacted Sampson Tank Cleaning Co., Bayonne, to clean up the oil.

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Meanwhile Mr. Clifford Wolf, Supt. of Fiske Bros., directed two Fiske employees and the driver in preventing the oil from flowing into the catch basin at Lister and Esther Streets by spreading oil-dry over the area.

Violation and Elimination - Fiske Bros. (con't.)

Sampson Tank Cleaning Co., crew and equipment arrived at approximately 4:30 P.M. and completed the clean-up and removal at 5:30 P.M.

Violation and Elimination - Glamorene Products Corp. 175 Entin Rd., Clifton, N.J.
March 26, 1973 (F. Wendt)

At 11:30 A.M. on March 26, 1973, Mrs. Molnar of Rutherford , N.J. called P.V.S.C. and reported that a white discharge was comi from the Entin Storm Sewer.

Inspector Wendt was assigned and found that the Glamorene Products Corp., was the source of the pollution. Two cases of liquid detergent fell and broke during a delivery to this company. Company employees then hosed down the material into the storm sewer thence the Passaic River.

Mr. Noll, the Plant Manager,was warned that if there was a repetition of this type of accident, he should not wash it into the storm sewer but should apply an absorbent material or vacuum i up and wash it into the sanitary sewer.

Violation and Elimination - City of Hackensack, So. Summit Avenue Storm Sewer
May 17 - December 14, 1973 (J. Perrapato)

While tracing the oil in Millbank Brook back to its source, Mr. Lubetkin noticed a small flow from a storm drain on the Raywin Realty property, which appeared to come from South Summit Avenue, Hackensack. On May 17, 1973, a sample was taken and found to be polluting (very high fecal coliform count, high turbidity, suspended solids, and C.O.D.).

On May 24, 1973, Mr. Richard Galofaro, Sanitarian of the Borough of Lodi, wrote to the PVSC, stating that a joint inspection was conducted by the Lodi and Hackensack Health Departments concerning the sewage discharge into Lodi waterways. A dye test had proved negative, and further testing was to be done by the Hackensack Health Department. Mr. Galofaro requested a copy of the analysis, which was sent to him on June 5, 1973.

SDMS Document
93211

PRP CASES FOR THE LOWER PASSAIC RIVER STUDY AREA

PRP DATA EXTRACTION FORMS AND EVIDENCE CONCERNING:

FISKE BROTHERS REFINING CO.

PREPARED FOR:

LOWER PASSAIC RIVER STUDY AREA
COOPERATING PARTIES GROUP

SUBMITTED TO:
USEPA REGION II

DECEMBER 27, 2005

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Fiske Brothers Refining Co.

932110002

PRP CASES
FOR THE
LOWER PASSAIC RIVER STUDY AREA

FISKE BROTHERS REFINING CO.

INDEX OF EVIDENCE

Tab No.	Year	Day and Month	Description
1	1995-2005		NJDEP Waste Manifest Report
2	2002	3-Oct	Renewal Authorization to Discharge Stormwater under NJPDES General Permit NJ0088315
3	1999	10-Dec	Request for Authorization Form (RFA)
4	2000	5-Jan	Authorization to Discharge Stormwater under NJPDES General Permit No. NJ0088315
5	1999	19-Nov	Letter from NJDEP to Fiske Brothers regarding failure to submit a Discharge to Surface Water permit application
6	2000	28-Jun	Stormwater Pollution Prevention Plan (SPPP) Certification
7	1978	September	City of Newark, New Jersey Feasibility Study: Pollution Abatement Program
8	2005	7-Dec	D&B Report on Fiske Brothers Refining Co.
9	2005	7-Dec	New Jersey Trade and Manufacturer's Catalogs showing Lubriplate as a division of Fiske Brothers from 1950-1960
10	2003	14-Oct	World Wide Web article, "Success Stories: Fiske Brothers Refining Co."
11	Undated		Lubriplate Lubrication Date Book
12	Various		MSDSs for Fiske Brothers Products
13	1973		Annual Report to the Passaic Valley Sewerage Commision

NEW JERSEY DEPARTMENT OF ENVIRONMENTAL PROTECTION
DIVISION OF HAZARDOUS WASTE MANAGEMENT

WASTE MANIFESTS FROM 01/01/95 TO 05/23/05
FROM GENERATOR NJD002153070 TO SPECIFIED TSDF'S

GENERATOR	TSDF	MANIFEST	DATE SHIPPED	WASTE CODE	WASTE NAME	QUANTITY
FISKE BROTHERS REFINING CO. 129 LOCKWOOD ST. NEWARK , NJ NJD002153070	CYCLE CHEM INC 217 S FIRST ST ELIZABETH , NJ NJD002200046	NJA3083395	01/19/00	D002	CHARACTERISTIC OF CORROSIVITY	2000 P
				F003	NON HAL SOLV & STLBTM	60 G
		NJA3083400	01/19/00	D002	CHARACTERISTIC OF CORROSIVITY	110 G
				D001	CHARACTERISTIC OF IGNITABILITY	55 G

Div of Solid and Haz
FJK waste permits

Fiske Brothers

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NEW JERSEY DEPARTMENT OF ENVIRONMENTAL PROTECTION
DIVISION OF HAZARDOUS WASTE MANAGEMENT

WASTE MANIFESTS FROM 01/01/80 TO 12/31/94
FROM GENERATOR NJD002153070 TO SPECIFIED TSDF'S

GENERATOR	TSDF	MANIFEST	DATE SHIPPED	WASTE CODE	WASTE NAME	QUANTITY
FISKE BROTHERS REFINING CO. 129 LOCKWOOD ST. NEWARK , NJ NJD002153070	CITY DISPOSAL/ENVIRONMENTAL 1550 HARPER DETROIT , MI NJC876005257	MI01693100	08/14/90	X725	OIL SPILL CLEANUP MATERIAL	57450 P
		MI01703727	09/18/90	X725	OIL SPILL CLEANUP MATERIAL	11500 P

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State of New Jersey

James E. McGreevey
Governor

Department of Environmental Protection

Bradley M. Campbell
Commissioner

Bureau of Nonpoint Pollution Control
Division of Water Quality
P.O. Box 029 Trenton, NJ 08625-0029
Phone : 609-633-7021, 292-0407
Fax: 609-984-2147

10/02/2002

William Chappell
FISKE BROTHERS REFINING CO
129 LOCKWOOD ST

Newark, NJ 07105

Fiske Brothers
Bureau of Nonpoint Pollution Control

Re: 5G2 -General Permit Stormwater Basic **NJ0088315**
NJPDES: NJG0135992 PI ID #: 50467
FISKE BROTHERS REFINING CO
Newark, Essex

Dear William Chappell:

Your facility is currently authorized to discharge stormwater under General Permit NJPDES No. NJ0088315. The version of the general permit under which you previously were authorized has expired. However, this permit has been renewed until May 31, 2007. Please find enclosed your Renewal Authorization to Discharge Stormwater under NJPDES General Permit **NJ0088315** and a copy of that permit. All co-permittees will receive original Authorizations. One of these Authorization forms is requested to be LOCATED at the regulated facility at all times and be AVAILABLE for inspection by any authorized representative of the New Jersey Department of Environmental Protection. If you have designated an agent, it is your responsibility to notify your agent about this General Permit Authorization and its requirements.

Enclosed is the final General Permit NJ0088315. Please be advised that the renewed General Permit requires that all stormwater associated with industrial activities, including that discharged to groundwater, must meet the Best Management Practice of no exposure. You were advised of this new condition in the draft permit information you received as part of the permit renewal process. Please submit your certification, as described below, prior to the required deadline.

Also enclosed is an *ATTACHMENT D Annual Recertification* that must be submitted to the Bureau each year. You are required to annually review your facility and submit a certification attesting that the facility meets all the requirements of the permit. This form will be due in the calendar quarter in which the month of Attachment D – SPPP *Initial Implementation and Inspection Certification* falls. The due date will be a three month quarter as assigned on your authorization page (see "Annual Recertification Due" on your Authorization page).

Copies of the revised SPPP Guidance Manual and other forms including the *Annual Recertification Attachment D*, will available at the Department's web site: http://www.state.nj.us/dep/dwq/stormw.htm. If you do not have access to the web site please contact the Bureau of Nonpoint Pollution Control at the above address for a copy.

Should any information about your facility, i.e., mailing address, contact person, etc. change, please contact the Bureau for a Administrative Update Form. If your facility is sold, closing or moving its location please write the Bureau for instructions.

The Department appreciates your efforts toward accomplishing the goal of providing cleaner water for our State and looks forward to working together with you in the future. If you have any questions please contact the Bureau.

Sincerely,

Barry Chalofsky, P.P., Chief
Bureau of Nonpoint Pollution Control

Enclosures: (2)
Renewed Authorization to Discharge (ATD)
NJPDES General Permit No. **NJ0088315**

C: (w/ATD Form): NJDEP Water Compliance and Enforcement Region Office
Facility Owner (if applicable)
Debbie Esposti, BPM

New Jersey Department of Environmental Protection
Bureau of Nonpoint Pollution Control
Division of Water Quality
PO Box 029
Trenton, NJ 08625-0029
Phone: (609) 633-7021
Fax: (609) 984-2147

RENEWAL OF AUTHORIZATION TO DISCHARGE
5G2 -General Permit Stormwater Basic

Facility Name: FISKE BROTHERS REFINING CO

PI ID #: 50467

Facility Address:
129 LOCKWOOD ST
NEWARK, NJ 07105

NJPDES #: NJG0135992

SIC Code: 2992

Annual Recertification Due: Jan - Mar

Type of Activity: Stormwater Discharge General Permit Authorization Renewal

Owner:
FISKE BROTHERS REFINING CO
129 LOCKWOOD ST
NEWARK, NJ 07105

Operating Entity:
FISKE BROTHERS REFINING CO
129 LOCKWOOD ST
NEWARK, NJ 07105

Issuance Date:	Effective Date:	Expiration Date:
10/03/2002	06/01/2002	05/31/2007

Your Request for Authorization under NJPDES General Permit No. NJ0088315 has been approved by the New Jersey Department of Environmental Protection.

Date: 10/03/2002

Barry Chalofsky, P.P., Chief
Bureau of Nonpoint Pollution Control
Division of Water Quality
New Jersey Department of Environmental Protection

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4A

New Jersey Department of Environmental Protection
Bureau of Nonpoint Pollution Control
PO Box 029
Trenton, N.J. 08625-0029

ATTACHMENT "D"

Stormwater Pollution Prevention Plan (SPPP)

Initial Implementation and Inspection Certification

Basic Industrial General Permit No. NJ0088315

(N.J.A.C. 7:14A-11 Appendix A)

RECEIVED JUL 12 2001 NJDEP DIVISION OF WATER QUALITY BUREAU OF NONPOINT POLLUTION CONTROL

RECEIVED JUL 12 2001 NJDEP DIVISION OF WATER QUALITY BUREAU OF NONPOINT POLLUTION CONTROL

SWG: A- 021737 # 50467 NJPDES Permit # NJ0135992

SUBMIT THIS FORM ONCE, AFTER SPPP IS IMPLEMENTED. FOR EXISTING FACILITIES, THE SPPP MUST BE IMPLEMENTED WITHIN 18 MONTHS OF AUTHORIZATION UNLESS THE DEPARTMENT GRANTS AN EXTENSION.

"I certify under penalty of law that this Stormwater Pollution Prevention Plan Implementation and Inspection Certification and all attached documents were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate this information. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering this information, the information in this Stormwater Pollution Prevention Plan Implementation and Inspection Certification and all attached documents is, to the best of my knowledge and belief, true, accurate and complete.

"I certify that the facility has been inspected to identify areas contributing to the stormwater discharge authorized under NJPDES permit No. NJ0088315 and to evaluate whether the stormwater pollution prevention plan (SPPP) prepared under that permit complies with part III.A. of that permit and is being properly implemented.

"I certify that the stormwater pollution prevention plan referred to in this Stormwater Pollution Prevention Plan Implementation and Inspection Certification has been and will continue to be fully implemented at this facility in accordance with the terms and conditions of part III of NJPDES Permit No. NJ0088315. I specifically certify that there is no exposure, during and after storm events, of industrial materials, machinery, waste products or other source materials located at the facility, to stormwater that is discharged to surface waters and regulated under that NJPDES permit (except for any incidents of non-compliance identified in the attached report). I also specifically certify that this facility does not generate and discharge, through storm sewers to surface waters, any domestic sewage, non-contact cooling water, or process waste water (including leachate and contact cooling water) other than stormwater, unless that discharge is authorized by another NJPDES permit or identified in an application (o request for authorization) submitted for another NJPDES permit.

"I also certify that this facility is not in violation of any conditions of NJPDES Permit No. NJ0088315, including requirements in part III of that permit for preparation and implementation of a stormwater pollution prevention plan, except for any incidents of noncompliance (which are noted in the attached report). For any incidents of noncompliance identified in the annual inspection (or made known to me during the course of the past year), I have attached a report identifying these

N.J.D.E.P. Bureau of Nonpoint Pollution Control

ANNUAL REPORT

Worksheet #13
Completed by: William H. Chappell
Title: Chief Lubrication Engineer
Date: June 29, 2001

Instructions: Summarize each annual inspection. Indicate whether the facility was in compliance with the SPPP and the conditions of this permit. In the case of noncompliance the report shall identify measures taken to remedy any noncompliance. This report must be signed and dated and kept with SPPP for five years.

We have conducted an annual inspection evaluating all areas that discharge stormwater authorized by this permit, including:

- the removal or covering of source material;
- areas where good housekeeping practices are used;
- activities for preventive maintenance;
- visual inspections for sources of pollution;
- structures for diverting stormwater; and
- training for stormwater pollution prevention team members.

Our facility has maintained each of the BMPs outlined in the SPPP. We have made necessary repairs or maintenance as needed. We will pursue more training for stormwater pollution prevention awareness by seeking seminars concerning said stormwater pollution prevention and permitting. The annual inspection determined that the SPPP has been properly implemented, and has eliminated exposure of source material to stormwater, and that no additional measures are required. Therefore, Fiske Brothers Refining Co. is in compliance with the SPPP and the conditions of the Basic Industrial Stormwater General Permit (NJ0088315)

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William H. Chappell
Signature

6/29/01
Date

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DEC 13 1999 12/21/99

Bureau of Nonpoint Pollution Control

Division of Water Quality

New Jersey Department of Environmental Protection

FOR STATE USE ONLY		
SWGA #	A-021737	
NJPDES #	NJ0135992	
Date Rec'd	12-21-99	
Amount Rec'd	$ 500.00	
	YES	NO
Check Rec'd	✓	
A/A Rec'd	✓	
SPPP Rec'd		✓
Cert. Signed		
Staff	Gaddis	

Request for Authorization (RFA) Form

NJPDES Basic Industrial Stormwater General Permit No. NJ0088315

(N.J.A.C. 7:14A-11 Appendix A)

Stormwater Discharge Associated with Industrial Activity

0714

Please read and follow all the instructions carefully (see attached instructions). Any omissions may delay your permit authorization issuance. **Sign and Date** where indicated. **Print or Type** all information.

1. Facility Information

A. Facility Name Fiske Brothers Refining Company

B. Location (number and street) 129 Lockwood Street

C. City or Town Newark D. County Essex

E. USEPA ID # (if assigned) NJD-002153070

F. Mailing Address 129 Lockwood Street

G. City or Town Newark

H. State & Zip Code New Jersey 07105-4782

I. SIC Code & Short Title 2992 Petroleum Products-Lubricating Oils & Greases

J. Contact Person & Telephone Number William Chappell

K. Parent Company Fiske Bros. Refining Co. Telephone # (973) 589-9150

Mailing Address 129 Lockwood Street

City or Town Newark

State New Jersey Zip Code 07105-4782

2. Property Owner (land)

A. Name Fiske Brothers Refining Co.

B. Permanent Legal Address 129 Lockwood Street

C. City or Town Newark D. State & Zip Code NJ 07105

E. Taxpayer Identification # or Social Security # 22-0913895

F. Owner Status (circle) 1. government 2. commercial 3. religious 4. charitable 5. public school

G. Telephone Number (973) 589-9150

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RFA Certification

Attachment "A"

Basic Industrial Stormwater General Permit
NJPDES General Permit No. NJ0088315

"I certify under penalty of law that this Request for Authorization and all attached documents were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate and complete. As far as I know, none of the stormwater discharges for which this Request for Authorization is submitted are excluded from authorization by part I.B of NJPDES Permit No. NJ0088315.

"I am aware that pursuant to the Water Pollution Control Act, N.J.S.A. 58:10A-1 et seq., there are significant civil and criminal penalties for making a false statement, representation or certification in any application, record, or other document filed or required to be maintained under that Act, including fines and/or imprisonment."

WHO MUST SIGN?

FOR A CORPORATION: a "responsible corporate officer" or duly authorized representative. A "responsible corporate officer" is (i) a president, secretary, treasurer, or vice-president of the corporation in charge of a principal business function, or any other person who performs similar policy or decision-making functions for the corporation; or (ii) the manager of one or more manufacturing, production, or operating facilities employing more than 250 persons or having gross annual sales or expenditures exceeding $25 million (in second-quarter 1980 dollars), if authority to sign documents has been assigned or delegated to the manager in accordance with corporate procedures.

FOR A PARTNERSHIP OR SOLE PROPRIETORSHIP: a general partner or the proprietor, respectively, or duly authorized representative.

FOR A MUNICIPALITY, STATE, FEDERAL OR OTHER PUBLIC AGENCY: either a principal executive officer or ranking elected official, or duly authorized representative.

A "responsible corporate officer", general partner, proprietor, principal executive officer of a public agency, or ranking elected official may assign his or her signatory authority for this Certification to a duly authorized representative, which is a named person or generic position (e.g., plant manager, superintendent, plant engineer, operations manager, etc.) having overall responsibility for facility operation or the permittee's environmental matters, by submitting a letter to the Bureau of Permit Management stating said authority and naming the person or position.

Facility Name: Fiske Brothers Refining Company
(print)

(print, if applicable, name of corporation, partnership, or public agency submitting this certification)

(signature) — Richard T. McCluskey (print name)

President & CEO (title) — December 10, 1999 (date)

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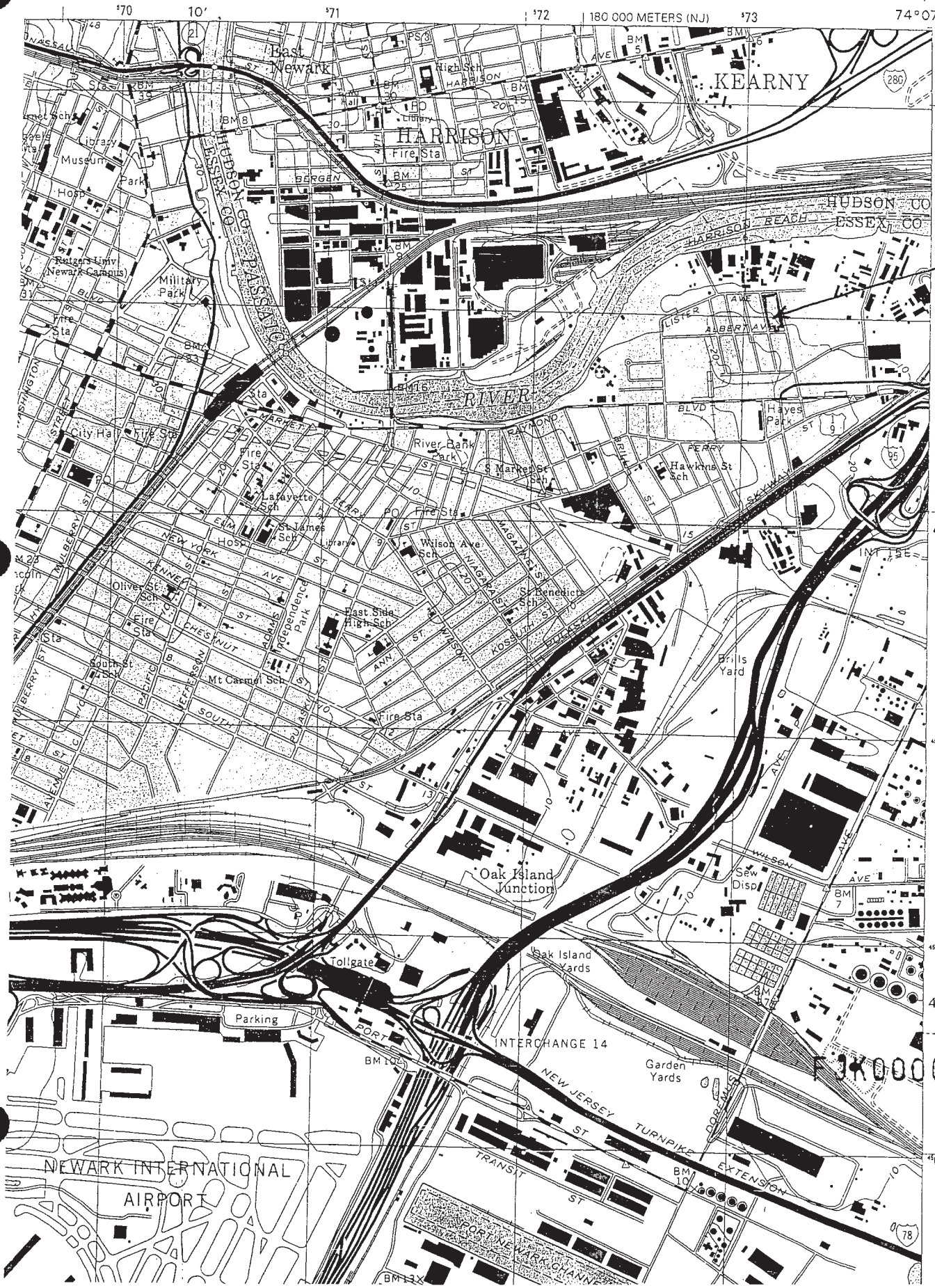
ELIZABETH QUADRANGLE
NEW JERSEY-NEW YORK
7.5-MINUTE SERIES (TOPOGRAPHIC)



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State of New Jersey

Christine Todd Whitman
Governor

Department of Environmental Protection

Robert C. Shinn, Jr.
Commissioner

Bureau of Nonpoint Pollution Control
401 East State Street
P.O. Box 029
Trenton, NJ 08625-0029
Tel. 609-633-7021 Fax: 609-984-2147

CERTIFIED MAIL
RETURN RECEIPT REQUESTED

To: FISKE BROTHERS REFINING COMPANY

1/5/00

Please find enclosed your Authorization to Discharge Stormwater under NJPDES General Permit N NJ0088315 and a copy of that permit. All co-permittees will receive original Authorizations. One of these Authorization forms is requested to be LOCATED at the regulated facility at all times and be AVAILABLE for inspection by any authorized representative of the New Jersey Department of Environmental Protection. If you have designated an agent, *it is your responsibility to notify your agent about this General Permit Authorization* and its requirements.
Enclosed are your Stormwater Pollution Prevention Plan (SPPP) Certifications (Attachments C and D) and your SPPP Guidance Manual. Below is a brief description of each:

The SPPP GUIDANCE MANUAL is a planning aid for use in developing your Stormwater Pollution Prevention Plan.

ATTACHMENT C (SPPP Preparation Certification) certifies that the Plan has been prepared in accordance with the permit. The permit specifies that this Certification must be signed and submitted to the Bureau of Nonpoint Pollution Control (Bureau) six (6) months from the date of this letter.

ATTACHMENT D (SPPP Initial Implementation and Inspection Certification) certifies that the Plan has been implemented and that you have inspected the facility for compliance with the Plan and the permit. The permit specifies that this Certification must be signed and submitted to the Bureau within eighteen (18) months from the date of this letter. (You will later receive ATTACHMENT D Annual Recertifications that must be submitted to the Bureau in subsequent years.)

Should any information about your facility, i.e., mailing address, contact person, etc. change, please contact the Bureau for a Standard Change Form. If your facility is sold, closing or moving it's location, please write the Bureau for instructions.

The Department appreciates your efforts toward accomplishing the goal of providing cleaner water for our State and looks forward to working together with you in the future. If you have any questions please contact the Bureau.

Sincerely,

Barry Chalofsky

Barry Chalofsky, P.P., Chief
Bureau of Nonpoint Pollution Control

Enclosures: (5)
Authorization to Discharge (ATD) Form
NJPDES General Permit No NJ0088315
Attachments C and D
SPPP Guidance Manual

c (w/ATD Form): NJDEP Water Compliance
and Enforcement Region Office
Facility Owner (if applicable)
BPM

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Recycled Paper

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New Jersey Department of Environmental Protection
Bureau of Nonpoint Pollution Control
Division of Water Quality
401 East State Street
P.O. Box 029
Trenton, NJ 08625-0029
Tel. 609-633-7021 or 292-0407

AUTHORIZATION TO DISCHARGE STORMWATER TO SURFACE WATER

Facility Name **FISKE BROTHERS REFINING COMPANY** SWG **A-021737**

NJ0135992

Facility Address **129 LOCKWOOD STREET**

NEWARK, NJ

SIC Code: **2992**

Type of Industrial Activity **LUBRICATING OILS AND GREA**

	Owner	Operator
Name:	**FISKE BROTHERS REFINING CO.**	**FISKE BROTHERS REFINING COMPANY**
	129 LOCKWOOD STREET	**129 LOCKWOOD STREET**
	NEWARK, NJ 07105	**NEWARK, NJ 07105**

EFFECTIVE DATE **1/5/00** EXPIRATION DATE: **1/31/02**

Your Request for Authorization under NJPDES General Permit N(**NJ0088315** has been approved by the New Jersey Department of Environmental Protection.

Barry Chalofsky, P.P., Chief
Bureau of Nonpoint Pollution Control
New Jersey Department of Environmental Protection

Date: **1/5/00**

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A-02737

NJ 0135992

State of New Jersey

Christine Todd Whitman
Governor

Department of Environmental Protection
Northern Bureau of Water Compliance and Enforcement
1259 Route 46, Building 2
Parsippany, New Jersey 07054-4191
Telephone (973) 299-7592 Fax (973) 299-7719

Robert C. Shinn, Jr.
Commissioner

IN 2/21/99

November 19, 1999

CERTIFIED MAIL
RETURN RECEIPT REQUESTED

RFA INE 12/19
CF RFA 12/20

Mr. William Chappell, Chief Lubricating Engineer
Fiske Brothers Refinery company
129 Lockwood St.
Newark, N.J. 07105

Re: Unpermitted Discharge to Surface Water (Passaic River)
Fiske Brothers Refinery Company
Newark/Essex County

Dear Mr. Chappell:

A representative of the New Jersey Department of Environmental Protection ("NJDEP" or "Department") conducted a New Jersey Pollution Discharge Elimination System (NJPDES) Compliance Evaluation and Assistance Inspection at the Fiske Brothers Refinery Company (Fiske) industrial facility at 129 Lockwood Street, Newark, New Jersey 07105 on November 15 and 16, 1999.

A Notice of Violation (NOV) was issued to Fiske for the following violation:

The facility has not submitted a Discharge to Surface Water (DSW) permit application to the Bureau of Nonpoint Pollution Control (BNPC) as required under the Industrial General Stormwater Permitting Program.

You are required to take corrective measures. Fiske's industrial activity is in the proximity of storm drains discharging to the Passaic River. Such a discharge is governed by the New Jersey Water Pollution Control Act N.J.S.A.58:10A-1 *et seq.*, and the regulations promulgated thereunder N.J.A.C.7:14A-11 *et seq.* Your facility, with SIC Code 2992, should be regulated under category (ii) of the General Stormwater Permit.

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You are therefore required to submit, an application for the General Stormwater Permit pursuant to N.J.A.C.7:14A-11.5(b) as defined under N.J.A.C.7:14A-1.2 to the Bureau of Non-Point Pollution Control, 401 East State Street, Trenton, New Jersey 08625, with a copy sent to this Bureau, within thirty (30) calendar days of receipt of this letter. Permit application information and forms may be obtained by contacting the Bureau of Nonpoint Pollution Control at (609) 633-7021.

Please direct any questions on this correspondence to this writer by phone at (973) 299-7592, or by letter through this Bureau. Thank you for your continued cooperation in the prevention and control of water pollution in New Jersey.

Very truly yours,

Theophilus Ashie
Principal Environmental Specialist
Northern Bureau of
Water Compliance and Enforcement

E29:G26

Enclosure

c: Janet Jessel, Supervisor, BNPC
City of Newark Health Department
Joseph M. Mikulka, Bureau Chief, NBWCE

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New Jersey Department of Environmental Protection
Bureau of Nonpoint Pollution Control
PO Box 029
Trenton, N.J. 08625-0029

ATTACHMENT "C"

Stormwater Pollution Prevention Plan (SPPP) Certification

Basic Industrial General Permit No. NJ0088315

(N.J.A.C. 7:14A-11 Appendix A)

SWG: A- 021737 NJPDES Permit # NJ 0135992

THIS CERTIFICATION FORM IS TO BE SUBMITTED AFTER YOU HAVE PREPARED YOUR FACILITY'S SPPP. FOR EXISTING FACILITIES, THE SPPP MUST BE PREPARED WITHIN 6 MONTHS OF THE GENERAL PERMIT AUTHORIZATION. THIS ATTACHMENT "C" CERTIFIES THAT THE SPPP HAS BEEN PREPARED IN ACCORDANCE WITH THE GENERAL PERMIT CONDITIONS.

"I certify under penalty of law that I have signed a stormwater pollution prevention plan (SPPP), and that if this plan is fully implemented, there will be no exposure, during and after storm events, of industrial materials, machinery, waste products or other source materials located at the facility, to stormwater that is discharged to surface waters and regulated under NJPDES Permit No. NJ0088315 (except for unintentional and temporary exposure because of an event beyond the reasonable control of the permittee). I further certify that if any part of this stormwater pollution prevention plan requires the consent of the owner(s) of or another operating entity for the facility, that consent has been obtained.

"I further certify that this Stormwater Pollution Prevention Plan Preparation Certification, all attached documents, and stormwater pollution prevention plan were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate this information. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering this information, the information in this Stormwater Pollution Prevention Plan Preparation Certification, all attached documents, and stormwater pollution prevention plan is, to the best of my knowledge and belief, true, accurate and complete.

"I certify that the stormwater pollution prevention plan referred to in this Stormwater Pollution Prevention Plan Preparation Certification has been signed and is being retained at the facility in accordance with part III.A of NJPDES Permit No. NJ0088315, and that the permittee intends that this stormwater pollution prevention plan will be fully implemented at the facility in accordance with the terms and conditions of that permit. I am aware that pursuant to the Water Pollution Control Act, N.J.S.A. 58:10A-1 et seq., there are significant civil and criminal penalties for making a false statement, representation, or certification in any application, record, or other document filed or required to be maintained under that Act, including fines and/or imprisonment."

Any changes to the facility data previously submitted require a Standard Change Form (SCF) to be submitted along with this Certification. This will facilitate file maintenance. Please contact the Bureau at (609) 633-7021 for copies of this form. Do not send the actual SPPP with this submission. The plan and a copy of this Certification are to remain on-site available for inspection.

WHO MUST SIGN?

FOR A CORPORATION: a "responsible corporate officer" or duly authorized representative. A "responsible corporate officer" is (i) a president, secretary, treasurer, or vice-president of the corporation in charge of a principal business function, or any other person who performs similar policy or decision-making functions for the corporation; or (ii) the manager of one or more manufacturing, production, or operating facilities employing more than 250 persons or having gross annual sales or expenditures exceeding $25 million (in second-quarter 1980 dollars), if authority to sign documents has been assigned or delegated to the manager in accordance with corporate procedures.

FOR A PARTNERSHIP OR SOLE PROPRIETORSHIP: a general partner or the proprietor, respectively, or duly authorized representative.

FOR A MUNICIPALITY, STATE, FEDERAL OR OTHER PUBLIC AGENCY: either a principal executive officer or ranking elected official, or duly authorized representative.

A "responsible corporate officer", general partner, proprietor, principal executive officer of a public agency, or ranking elected official may assign his or her signatory authority for this Certification to a duly authorized representative, which is a named person or generic position (e.g., plant manager, superintendent, plant engineer, operations manager, etc.) having overall responsibility for facility operation or the permittee's environmental matters, by submitting a letter to the Bureau of Nonpoint Pollution Control stating said authority and naming the person or position.

Whenever there are two or more permittees for the facility, all of those permittees shall jointly submit this Certification, unless permittees received authorization on different dates and this Certification is therefore due from them at different dates.

Facility Name: Fiske Brothers Refining Co. SWG: A - 021737

NJPDES # NJ 0135992

Fiske Brothers Refining Company
(print, if applicable, name of corporation, partnership, or public agency submitting this Certification)

(signature)	(date)	(print name)
Richard T. McCluskey	6/28/00	Richard T. McCluskey

If you have any questions regarding this Attachment C or any other stormwater related questions, please call a member of the Bureau of Nonpoint Pollution Control staff at (609) 633-7021.
Attachment C shall be submitted to the letterhead address on the front of this Certification.

ATTC-5/5/97

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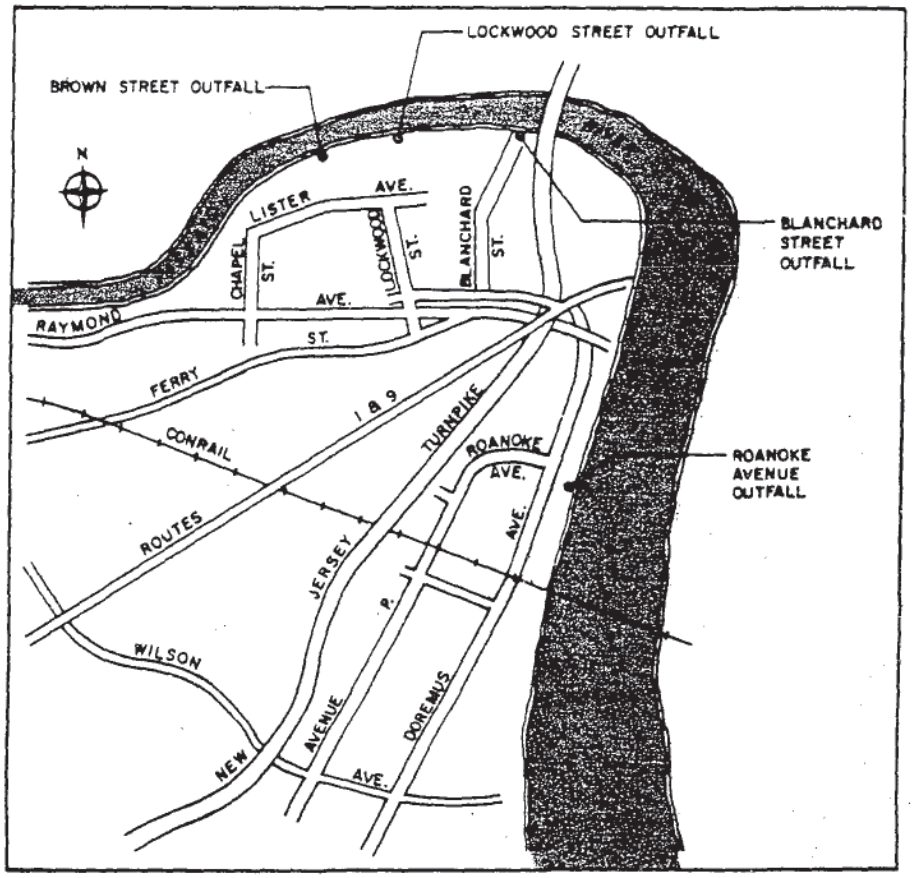
City of Newark, New Jersey

Feasibility Study

POLLUTION ABATEMENT PROGRAM



Clinton Bogert Associates
Consulting Engineers

September, 1978
Revised January, 1979

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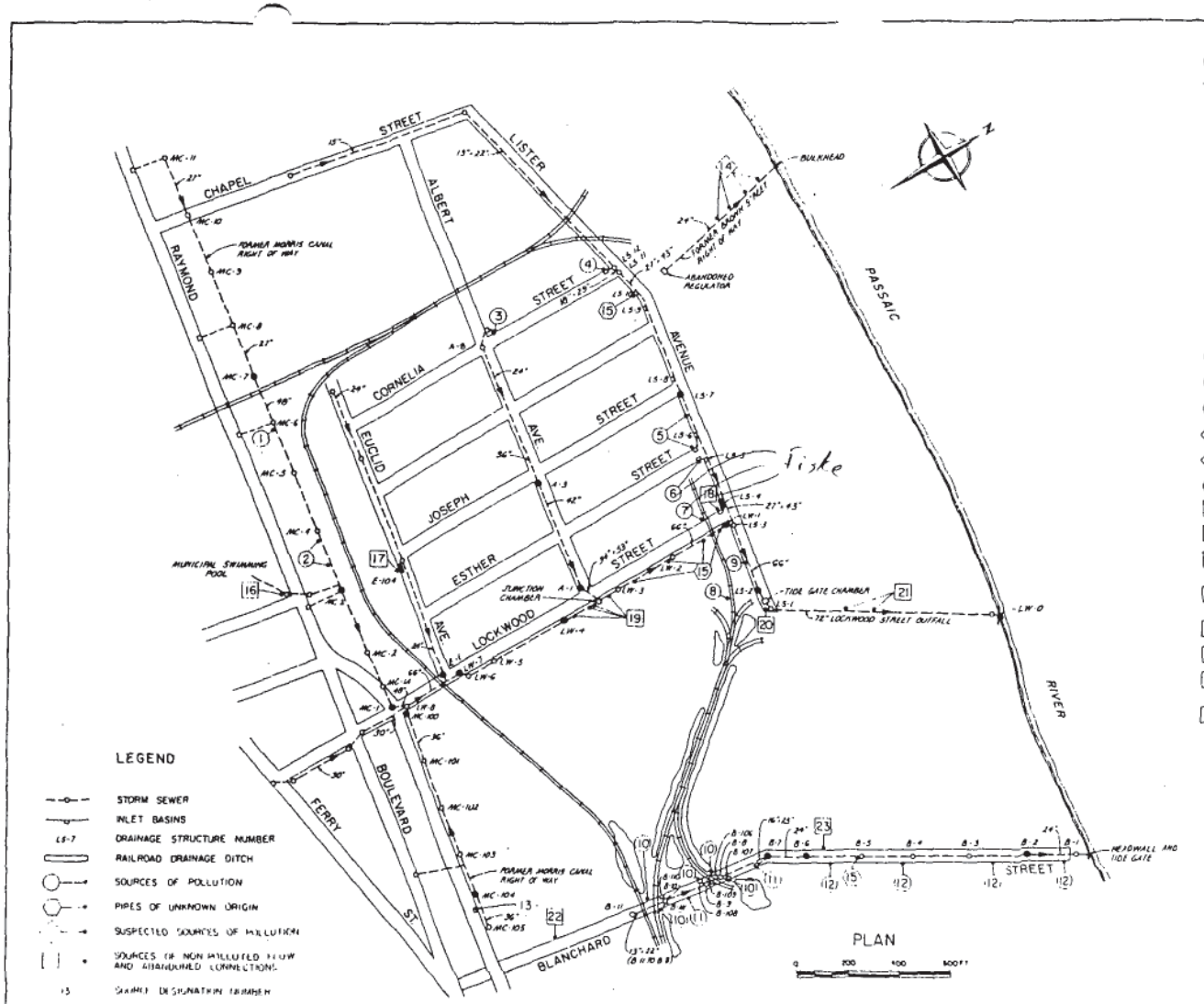

DESIGNATION NUMBER	SOURCE DESCRIPTION
1	INTERMITTENT DUMPING OF PAINT INTO INLET AT ASSOCIATED AUTO BODY AND TRUCKS INC.
2	CAR WASH DRAINS AT SUNOCO STATION CONNECTED TO STORM SEWER.
3	INTERMITTENT, LOW VOLUME DISCHARGE OF OIL AND WATER ENTERING INLET FROM CELLOMER CORP.
4	CONTINUOUS FLOW OF ORANGE VISCOUS CHEMICALS ENTERING INLET FROM CELLOMER CORP.
5	CONTINUOUS FLOW OF BLACK OILY CHEMICALS ENTERING INLETS FROM B-LINE TRUCKING COMPANY.
6	INTERMITTENT, LOW VOLUME DISCHARGE OF OIL AND WATER ENTERING INLET FROM FISKE BROTHERS REFINING COMPANY.
7	INTERMITTENT DISCHARGE OF BLACK OILY CHEMICALS ENTERING INLET FROM FISKE BROTHERS REFINING COMPANY RAILROAD SIDING.
8	CHEMICAL SPILLAGE AT ATLAS REFINERY INC. RAILROAD SIDING CONTAMINATING GROUND AND ENTERING RAILROAD DRAINAGE DITCHES DURING WET WEATHER.
9	RAILROAD DRAINS AND OIL SEPARATOR AT ATLAS REFINERY INC. CONNECTED TO STORM SEWER.
10	INTERMITTENT FLOW OF WATER AND CHEMICALS ENTERING INLETS FROM RAILROAD DRAINAGE DITCHES.
11	FREQUENT OVERFLOW OF SEWAGE FROM SANITARY MANHOLES ENTERING INLETS.
12	OCCASIONAL OVERFLOW OF SEWAGE FROM SANITARY MANHOLES ENTERING INLETS.
13	CONTINUOUS DISCHARGE FROM NEWARK BOXBOARD COMPANY.
14	INLETS AND DRAINS AT SHERWIN WILLIAMS COMPANY CONNECTED TO STORM SEWER.
15	PIPES OF UNKNOWN ORIGIN.
16	CONTINUOUS FLOW FROM MUNICIPAL SWIMMING POOL (SEASONAL).
17	CONTINUOUS FLOW OF COOLING WATER ENTERING INLET FROM REDDAWAY MANUFACTURING COMPANY.
18	INTERMITTENT DISCHARGE OF COOLING WATER ENTERING INLET FROM FISKE BROTHERS REFINING COMPANY.
19	ROOF DRAIN CONNECTIONS FROM THE MESSINGER WAREHOUSE AND TRUCKING COMPANY AND ABANDONED INLET CONNECTION.
20	ABANDONED RAILROAD DRAIN CONNECTED TO MANHOLE LS-1
21	ROOF DRAIN CONNECTIONS FROM THE BENJAMIN MOORE COMPANY.
22	CONTINUOUS, LOW VOLUME DISCHARGE OF COOLING WATER ENTERING GUTTER FROM NEWARK BOXBOARD COMPANY.
23	INTERMITTENT DISCHARGE OF GROUNDWATER ENTERING GUTTER FROM SUMP PUMP AT FAIRMOUNT CHEMICAL COMPANY.

NEWARK POLLUTION ABATEMENT FEASIBILITY STUDY

SOURCES OF POLLUTION IN STORM SEWER SYSTEMS ON BLANCHARD, LOCKWOOD AND BROWN STREETS

CLINTON BOGERT ASSOCIATES
CONSULTING ENGINEERS

PLATE 2

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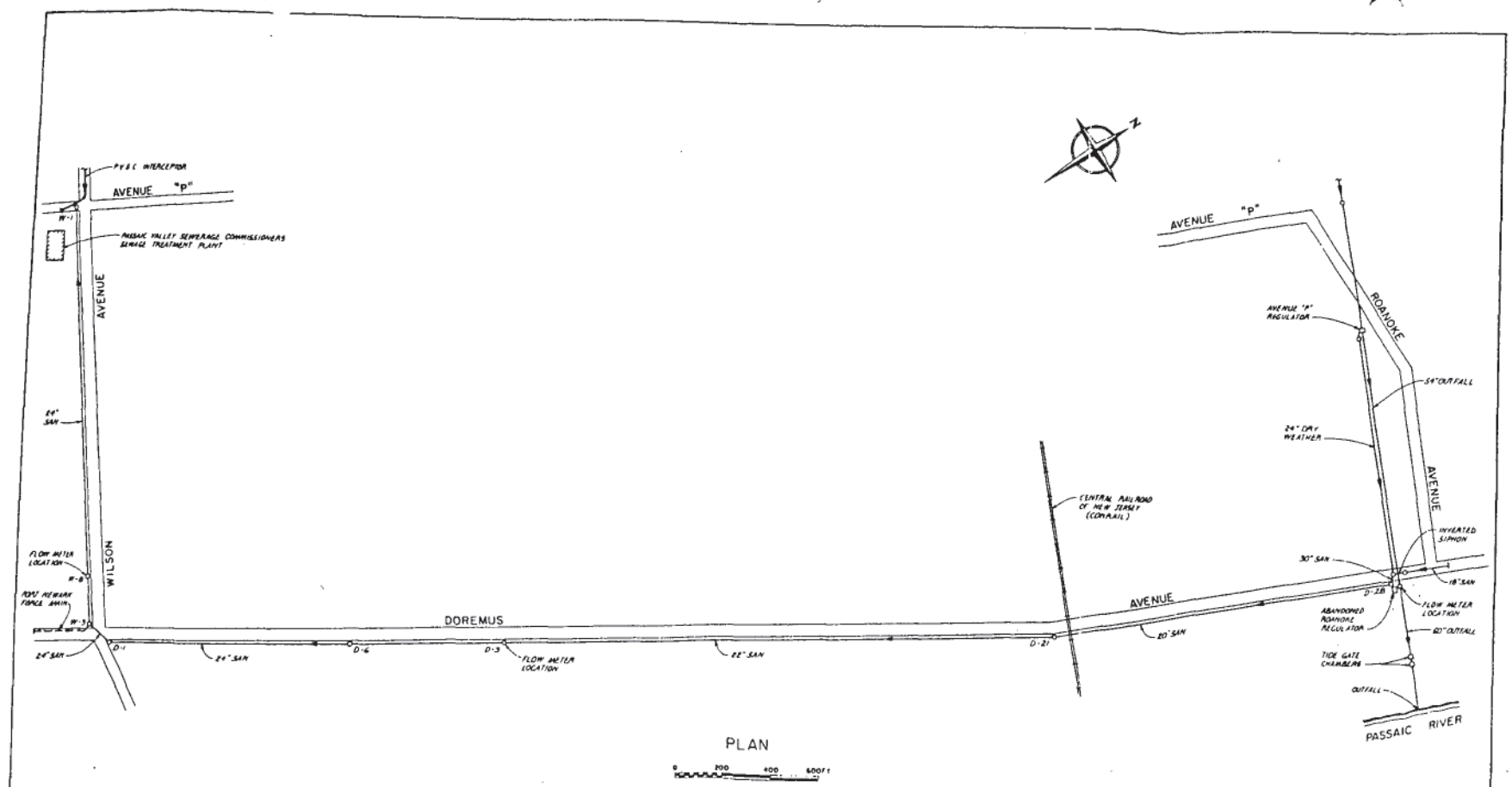

NEWARK POLLUTION ABATEMENT FEASIBILITY STUDY

SANITARY AND COMBINED SEWER CONFIGURATIONS ON ROANOKE, DOREMUS AND WILSON AVENUES

CLINTON BOGERT ASSOCIATES
CONSULTING ENGINEERS

PLATE 1

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CLINTON BOGERT ASSOCIATES

PARTNERS
IVAN L. BOGERT
HERBERT L. KAUFMAN

PRINCIPAL ASSOCIATES
WAYNE EAKINS
JOHN H. SCARING

ASSOCIATES
JOHANNES DEWAAL
FRANCIS J. DOBROWOLSKI
IGNAZ POTTENBUCHER
DANIEL S. GREENE
HERBERT LANDESMAN
UMBERTO A. MILLETARI
WILLIAM WHEELER

CONSULTING ENGINEERS

2125 CENTER AVENUE • FORT LEE, NEW JERSEY 07024
(201) 944-1676 • CABLE: BOGERTENG FORTLEENJ

January 24, 1979

Honorable Kenneth A. Gibson, Mayor
City of Newark
City Hall
920 Broad Street
Newark, New Jersey 07102

Re: Pollution Abatement

Dear Mayor Gibson:

In accordance with our contract dated February 15, 1978, submitted herewith is our report on the sources of pollution discharging to the lower Passaic River during dry weather from the Roanoke Avenue combined sewer system and the Blanchard, Lockwood, and Brown Street storm sewer systems. Each system is discussed in a separate section which contains:

(1) A description of the existing sewers.
(2) Findings of the physical inspection.
(3) Conclusions and recommendations applicable to that system.

Appropriate additional items are included as follows:

(1) For the Roanoke Avenue combined sewer system (Section III), a hydraulic analysis is presented. Significant conclusions are:

(a) all dry weather overflows may not be eliminated by rehabilitation of the existing system alone; but either flow routing, using storage available in the existing sewers, or increased interceptor capacity is required; and,

(b) a faulty regulator results in all sewage flows discharging untreated to the Passaic River.

(2) For the Blanchard Street storm sewer (Section IV), the results of dry weather flow sampling and gauging, smoke testing and T.V. inspection are presented. Significant conclusions are the need to:

(a) replace about 1,300 feet of existing 24" storm sewer which appears in danger of collapse,

(b) improve housekeeping around industrial railroad sidings, and,

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Honorable Kenneth A. Gibson, Mayor
City of Newark
City Hall
920 Broad Street
Newark, New Jersey 07102

CONSULTING ENGINEERS

We would be pleased to meet with you to review any matters contained herein. We wish to express our appreciation of the assistance given us by members of your staff, particularly Mr. Robert Benz, in carrying forward this work.

Very truly yours,

CLINTON BOGERT ASSOCIATES

Herbert L. Kaufman

Herbert L. Kaufman
P.E., N.J. Lic. No. 13647

HLK:mmb
Enclosure

Table of Contents

Page No.

Letter of Transmittal

I. Introduction..... 1

II. Scope of Work..... 3

III. Roanoke, Doremus, and Wilson Avenue Sewers..... 4
- A. Existing Sewers..... 4
- B. Physical Inspection Findings..... 5
  - 1. Avenue "P" Regulator and Roanoke Outfall Sewer..... 5
  - 2. Roanoke Avenue Sanitary Sewer..... 6
  - 3. Doremus Avenue Interceptor..... 6
  - 4. Wilson Avenue Interceptor..... 7
  - 5. Roanoke Avenue Regulator..... 7
- C. Hydraulic Analysis..... 8
  - 1. Flow Measurement Methods..... 8
  - 2. Observed Flow Rates..... 8
  - 3. Diversion of Roanoke Flow to PVSC Interceptor.....10
  - 4. Diversion Works.....14
- D. Conclusions and Recommendations.....17

IV. Blanchard Street.....20
- A. Physical Inspection Findings.....20
- B. Dry Weather Sampling and Flow Rates.....23
- C. Smoke Testing.....24
- D. Television Inspection.....25
- E. Conclusions and Recommendations.....26

V. Lockwood Street Outfall.....28
- A. Physical Inspection Findings.....28
  - 1. Lister Avenue Sewer.....28
  - 2. Morris Canal Sewers.....29
  - 3. Euclid Avenue Sewer.....29
  - 4. Albert Avenue Sewer.....30
  - 5. Lockwood Street Sewer.....30
  - 6. Lister Avenue Tide Gate.....30
  - 7. Lockwood Street Outfall.....31
- B. Dry Weather Flow Sampling and Flow Monitoring.....32
- C. Smoke Testing.....34
- D. Television Inspection.....35
- E. Conclusions and Recommendations.....38

(continued)

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Table of Contents
(continued)

Page No.

VI. Brown Street.....41
A. Configuration.....41
B. Physical Inspection Findings.....42
C. Dry Weather Effluent Sampling.....44
D. Conclusions and Recommendations.....45

VII. General Recommendations.....46
VIII. Appendices Following Text
A. Analytical Test Results
B. Letter From Robinson Pipe Cleaning Company

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ILLUSTRATIONS
(Following Appendices)

A. Plate 1 - Sanitary and Combined Sewer Configurations on Roanoke, Doremus and Wilson Avenues

B. Plate 2 - Sources of Pollution in Storm Sewer Systems on Blanchard, Lockwood and Brown Streets

C. Plate 3 - Diurnal Sewage Flow Patterns, Roanoke Avenue Outfall Sewer

D. Plate 4 - Diurnal Sewage Flow Patterns, Roanoke Avenue Outfall Sewer

E. Plate 5 - Diurnal Sewage Flow Patterns, Doremus Avenue Interceptor

F. Plate 6 - Diurnal Sewage Flow Patterns, Doremus Avenue Interceptor

G. Plate 7 - Diurnal Sewage Flow Patterns, Wilson Avenue Interceptor

H. Plate 8 - Diurnal Sewage Flow Patterns, Wilson Avenue Interceptor

I. Plate 9 - Flow Rates at the Lister Avenue Tide Gate Chamber

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IV. Blanchard Street

A. Physical Inspection Findings

Blanchard Street is served by separate storm and sanitary sewers. The 24-inch storm sewer (see Plate 2), constructed in 1917, discharges to the Passaic River. In 1970, the storm sewer was extended and the sanitary sewer was rebuilt. The sanitary sewer connects to a trunk sewer in Raymond Boulevard. The sanitary sewer is clogged by grease, tallow, paper and black oily waste. Several sanitary manholes were observed to surcharge and overflow into the street. These overflows usually occurred between 11:00 a.m. and 3:00 p.m. on weekdays. The frequency of overflow varies depending on industrial discharge rates. It does not appear to be related to rainfall events. Overflows were observed at least once a week and were noted on ten consecutive weekdays in April 1978. Intermittent overflows may have occurred during the last few years. These sanitary overflows are a major source of pollutants in the Blanchard Street storm sewer. City forces had been cleaning the Blanchard Street sanitary sewer when backups and overflows were reported. Equipment breakdowns and manpower shortages caused a suspension of cleaning operations in 1978.

Prior to cleaning, the storm sewer contained between 1.0 and 1.5 feet of primarily granular sediment mixed with black oil. The oil, which comes from the overflowing sanitary sewer, coats the inside of the pipes and manholes. Several inlets were filled with debris and sediment. The tide gate is mounted on a headwall on the river bank. The gate was being held open by sediment and debris during the first field inspection. The gate appeared to be fully operational after City personnel removed the sediment in April 1978. In subsequent inspections floating debris had lodged again under the gate indicating the need for frequent maintenance. A continuous waste

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discharge was noted. Dry weather flow rates, varying between 10,000 gpd and 100,000 gpd were estimated using depth measurements. The source of this flow appears to be groundwater. Dry weather flow was observed above manhole B-7 only when the sanitary sewer was overflowing or the drainage ditches along the Conrail industrial spurs were flooded.

Inlets B-106, B-107, B-108, B-109, B-110 and B-111 receive flow from the railroad spurs and sidings. The ditches along these tracks drain wet lands which were observed to contribute continuous flow for up to two weeks during wet periods. Chemical spillage was observed on the tracks and in the adjacent ditches. The source of the chemicals appears to be leakage from railroad tank cars. No leaking cars were observed, however. Major spills were noted from the Atlas Refinery Inc. railroad siding. Rain washes some of this spillage through the drainage ditches and railroad ballast into the Blanchard Street storm inlets. Since no leaking cars were found on the Conrail spurs, it is not possible to link other specific industries to the spillage. Valves may not always be closed when the cars are unloaded and chemicals may drip out while the cars are standing on the spurs in a totally random pattern. The Fairmount Chemical Company, the Benjamin Moore Company, Atlas Refinery Inc, and the Fiske Brothers Refining Company all receive tank cars through this railroad spur.

Four pipes were observed along the railroad tracks west of Blanchard Street. Two of the pipes drain the Delissa Pallet storage area and are not sources of pollution. The other two are filled with earth and appear to be old railroad culverts. Railroad drainage ditches are connected to inlets B-106 and B-108 by pipes. The pipe at B-108 is clogged with earth; this causes partial flooding of the siding during rainfall events. Leaks were found in the walls and under the frames of inlet B-106 and B-107 when the ground was saturated. The sanitary sewer is adjacent to inlet B-107 at an elevation lower than the leaks observed. The inlet was inspected in dry

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V. Lockwood Street Outfall

A. Physical Inspection Findings

The storm sewers in Lockwood Street, Lister Avenue, Chapel Street, Albert Avenue, Euclid Avenue and the Morris Canal Right-of-Way all drain through the Lockwood Street outfall (see Plate 2). Drainage from parts of Raymond Boulevard, Ferry Street, and the Pulaski Skyway ramp are also connected to the Lockwood Street system. Separate sanitary sewers serve the entire area. All storm manholes and inlets in the study area were inspected. The limits of tidal flow were identified and all sources of dry weather flow were isolated. Chemical spills at industrial facilities were noted. The Morris Canal storm sewer west of Lockwood Street (LW-8 to MC-11) was lamped.

(1) Lister Avenue Sewer

The manholes, inlets and pipes on Lister Avenue were coated with a black oily material. Sediment depth varied between 0.5 and 1.5 feet. The source of the oil was spillage at the B-Line Trucking Company. Tank trucks are allowed to drain while parked at this facility. Black oily chemicals flow into inlets on Lister Avenue and Esther Street. The flow into Esther Street is continuous and the curb has been broken out to facilitate it.

A continuous flow of viscous orange chemicals was observed entering an inlet on Cornelia Street. This material came from leaking drums stored on the Cellomer Corporation property. These chemicals were entering the Lister Avenue storm sewer. Intermittent spillage of black oily chemicals was noted at the Fiske Brothers Refining Company railroad siding and a very small volume of water and oil from that industry was being discharged into Esther Street. Both flows

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were entering the Lister Avenue storm sewer. A cooling water discharge pipe from Fiske Borthers was found at the inlet on the southwest corner of Lockwood Street and Lister Avenue. A 2-inch ± connection was found entering inlet LS-10. Because of its diameter, it is improbable that this line contains wastes. It was not flowing when inspected. The only building near LS-10 is occupied by the State Produce Company. No dry weather flow was observed upstream of manhole LS-12 and no sources of pollution are suspected above that point.

(2) Morris Canal Sewers

Continuous flow was observed in the Morris Canal storm sewers east and west of Lockwood Street. The flow in the easterly line (LW-8 to MC-105) was traced to the Newark Boxboard Company. This flow was estimated at 0.16 mgd using depth measurements. The municipal swimming pool on Waydell Street was discharging an estimated 0.07 mgd into the westerly line upstream of manhole MC3. The car wash drains at the Sunoco Station on Raymond Boulevard were found to be connected to the storm sewer between manholes MC3 and MC-4. Personnel at Associated Auto Body and Trucks Inc. were observed dumping paint into the storm sewer between manholes MC-6 and MC-7. Manhole MC-7 is the limit of tidal influence and no dry weather flow was observed upstream of that point. A partial blockage was found in the invert of manhole MC-2. Sediment varying in depth between 0.5 and 1.0 feet was noted between manholes LW-8 and MC-7.

(3) Euclid Avenue Sewer

The flow in the Euclid Avenue storm sewer, estimated at 0.02 mgd, was traced to the Reddaway Manufacturing Company's cooling water discharge at inlet E-104.

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(4) Albert Avenue Sewer

Tidal flow was observed in the Albert Avenue storm sewer up to manhole A-3. A minor, intermittent flow of water and oil from Cellomer enters the Cornelia Street gutter and flows to the Albert Avenue storm sewer. However, no dry weather flow was actually observed upstream of manhole A-3.

(5) Lockwood Street Sewer

No dry weather flow was observed in the Lockwood Street storm sewer upstream of manhole LW-8. There is no indication of pollutant sources above that point. The cross-connections shown on the sewer plans were inspected and found to be sealed. A railroad drain on the south side of the Messinger Trucking and Warehouse Corporation building appeared to be connected to the Lockwood Street sanitary sewer. Major spillage of chemicals was observed at the Atlas Refinery Inc. railroad siding. The eastern portion of this siding drains into railroad drainage ditches that are connected to the Blanchard Street storm sewer system. The discharges from Newark Boxboard, the municipal swimming pool, and Reddaway Manufacturing produce a base discharge of approximately 0.25 mgd.

(6) Lister Avenue Tide Gate

There was no evidence of chemical attack or deterioration of the concrete chamber. Sediment in the invert of the chamber prevents the Lister Avenue tide gate from closing completely. The gate allows inflow during the rising tide. Assuming a five foot tidal range and an open tide gate, approximately 270,000 gallons of river water enters with each incoming tide, mixes with pollutants being discharged into the system and flows back into the river as the tide falls. A typical diurnal flow pattern at the tide gate is shown on Plate 9. If

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the tide gates were to close completely, the discharge from the system of any polluted flow would be restricted to a relatively short period around low tide.

(7) Lockwood Street Outfall

An abandoned railroad drain was found connected to manhole LS-1. The last 25 feet of the 72-inch outfall was exposed and showed evidence of chemical attack. Portion of the crown had completely deteriorated. The headwall was not deteriorated and there was no evidence of chemical attack below the spring line of the pipe.

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B. Dry Weather Flow Sampling and Flow Montoring

Sources of dry weather flow and limits of tidal influence were noted during the physical survey. Those sewers in which flow was observed were subdivided for sampling. The first set of samples was obtained on May 2, 1978. The second set was taken on June 14, 1978. The laboratory analysis of these samples is shown in Appendix A. Both sets of samples show high levels of pollution on Lockwood Street, Lister Avenue, Albert Avenue, and the easterly portion of the Morris Canal storm sewer. The samples in the Euclid Avenue sewer fell within water quality standards. Because of tidal action, it was not possible to confirm that all high pollutant readings were caused by discharges near the respective sampling points. A discharge of pollutants anywhere in the system within the tidal range could be mixed and carried to distant sampling points. Samples were obtained at the following locations.

LW-0	Lockwood Street Outfall at the Passaic River
LS-2	Lister Avenue upstream of the tide gate chamber
LS-4	Lister Avenue upstream of Lockwood Street
LS-7	Lister Avenue at Joseph Street
LW-1	Lockwood Street upstream of Lister Avenue
LW-4	Lockwood Street upstream of Albert Avenue
LW-7	Lockwood Street downstream of the Morris Canal
A-1	Albert Avenue at Lockwood Street
A-3	Albert Avenue at Joseph Street
E-1	Euclid Avenue at Lockwood Street
E-104	Euclid Avenue (cooling water connection at inlet)
MC-1	Morris Canal at Lockwood Street (west side)
MC-3	Morris Canal 500 ft. west of Lockwood Street
MC-7	Morris Canal 1400 ft. west of Lockwood Street
MC-100	Morris Canal at Lockwood Street (east side)
MC-104	Morris Canal 800 ft. east of Lockwood Street

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Euclid Avenue was eliminated from further study because of sampling results. The cooling water discharged at Reddaway Manufacturing was sampled at inlet E-104. The Morris Canal storm sewer west of Lockwood Street (LW-8 to MC-11) was eliminated on the basis of physical inspection, lamping and sampling. The intermittent sources of pollution at the Sunoco Car Wash and Associated Auto Body have been identified. The high levels of pollutants detected at manhole MC-1 in the May 2 sampling is attributed to these sources. Sediment downstream caused flow to pool at manhole MC-7 and remain there as the tide went out. Pollutants from downstream appear to have been carried into that manhole by the tide causing the contamination detected in the MC-7 sample on June 14. The 72-inch Lockwood Street Outfall was not televised because there was no evidence of pollutant sources in the line. The Benjamin Moore Company is the only industry adjacent to the outfall. Maps provided by the City of Newark show the roof drains from one building connected to the outfall. The Benjamin Moore laboratory is located in that building but there are no chemical process facilities. The plant engineer indicates that all other surface and roof drainage is pumped directly into the Passaic River. All other storm sewers in which flow was observed were scheduled for television inspection.

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C. Smoke Testing

The storm and sanitary sewers on Lockwood Street, Lister Avenue, Albert Avenue, and the easterly portion of the Morris Canal right-of-way were smoke tested. No problems were observed when the storm sewers were tested. The pipe connecting to manhole LS-1 was found to terminate in an embankment along the nearby railroad spur. This pipe may have functioned as a railroad drain before the track elevation was lowered; it serves no purpose now. The effectiveness of the smoke testing may have been reduced in the larger storm sewers. Blowers were used to force smoke into the pipes under pressure. The volume of the Lockwood Street storm sewer (66-inch) and the number of inlet openings reduced the pressure behind the smoke and may have prevented it from reaching remote connections.

Three inflow sources were detected when the sanitary sewer was smoke tested. All observed roof and area drains at Atlas Refinery Inc. were connected to the sanitary sewer. These drains are a major source of inflow and should be reconnected to the storm sewer. A cross connection was found at the intersection of Joseph Street and Lister Avenue. The storm inlet at the southwest corner of the intersection is connected to the adjacent sanitary manhole. The sanitary sewer elevation is lower than the inlet invert. Sanitary sewage could enter the storm sewer if a blockage occurred. Smoke also escaped from the site of a demolished building at the southwest corner of the Lockwood Street-Albert Avenue intersection. It appears that the building connection was not sealed. No smoke was observed escaping from plumbing vents. It is probable that all connections to the storm and sanitary sewer have line traps which would prevent the passage of smoke.

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D. Television Inspection

The following lengths of storm sewer were inspected using closed circuit television.

Lister Avenue	LS-1 to LS-3
Lister Avenue	LS-4 to LS-11
Lockwood Street	LS-3 to LW-8
Albert Avenue	A-1 to A-3
Morris Canal	LW-8 to MC-104

The inspection of the Lister Avenue line revealed an oil separator at Atlas Refinery Inc. connected to the 66-inch storm sewer approximately 120 ft. upstream of manhole LS-2. This connection is believed to be a major source of pollutants. There is a railroad siding drainage system connected to this oil separator. Tank cars containing chemicals are unloaded at the siding daily and spills are frequent. Much of the spillage is believed to pass through the separator and enter the Lister Avenue storm sewer. No other sources of flow were found during the television inspection of Lister Avenue. Significant settlement was noted between LS-4 and LS-11. The television camera went under water frequently and came out at inlets and manholes. Most lengths of pipe had settled more than 15 inches. Based upon the portions of line that could be seen and the relatively recent date of construction (1970), no illegal connections are suspected. The pollution in the line results from spillage at B-Line Trucking and Cellomer, as well as pollutants washed in by the tide. The flow from the Atlas oil separator, immediately downstream, could cause high pollutant concentrations in the Lister Avenue storm sewer.

Several connections were found in the Lockwood Street storm sewer between manholes LW-4 and LW-3. Pipes were located 34 ft., 92 ft., 104 ft., 133 ft., 143 ft. and 200 ft. downstream of manhole

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LW-4. The pipes at 92 ft. and 104 ft. are shown on old plans as connections to inlets at the intersection. These inlets were connected to the new Albert Avenue storm sewer in 1970. The pipes at 34 ft., 143 ft. and 200 ft. appear to be roof or floor drain connections to the Messinger Trucking and Warehouse Corporation building. There are no wastes eminating from this facility. The connection at 143 ft. may also be a concrete spall; the pipe could not be seen clearly. The connection at 133 ft. comes from the west side of the street in the vicinity of the Albert Avenue intersection. This pipe is not shown on the storm sewer plans, but it may be an abandoned inlet connection. These connections were not flowing when the pipe was televised.

A connection of unknown origin was observed in the Lockwood Avenue storm sewer 53 ft. downstream of manhole LW-3. Inlet connections were also observed 170 ft. and 183 ft. downstream of LW-3. The pipe at 53 ft. connected on the east side and may be from Atlas Refinery Inc. A pipe crossing broken into the crown of the 66-inch line and running perpendicular to it was noted at 201 ft. These pipes were not flowing when televised. A 2-inch ± connection located approximately 10 ft. upstream of manhole LW-2 has been observed by City personnel. This connection comes from the east side of the street and was discharging flow when observed. This connection appeared to originate at Atlas Refinery Inc.

Three connections were noted between manholes LW-2 and LW-1 in the Lockwood street storm sewer. Pipes were observed 149 ft., 159 ft. and 215 ft. downstream of manhole LW-2. The connection at 159 ft. is believed to be from an inlet that was removed during construction of a new building at Atlas Refinery Inc. The connection at 149 ft. appeared to be a large pipe 24-inch ± surrounded by roots. It could also be a connection crossing the 66-inch line. The connection at 215 ft. was from the westerly side of the street. It

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could not be seen clearly and may be a concrete spall. No flow was observed from any of these pipes.

No improper connections were found in the Albert Avenue storm sewer or in the Morris Canal line between manholes LW-8 and MC-104. The pollutants detected in the Albert Avenue line appear to have been carried in by tidal action. Two sources of pollutants are suspected in the Morris Canal sewer east of Lockwood Street. The limit of tidal influence is downstream of manhole MC-104. Yet, pollutants were detected in the sample obtained at that manhole. Newark Boxboard discharges the flow sampled at MC-104 and that flow is polluted. However, the concentration of pollutants downstream, at manhole MC-100, is three times greater than at MC-104. Some pollutants may settle into the sediment during the high tide periods. Flow from Newark Boxboard may flush some of this material and carry it into the Lockwood Street storm sewer.

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E. Conclusions and Recommendations

1. Several improvements are required at Atlas Refinery Inc. The firm should be required to connect its oil separator to the sanitary sewer rather than to the storm sewer. The spillage at the railroad siding should be cleaned up and procedures developed to prevent future spills. Roof and area drains should be connected to the storm sewer rather than to the sanitary sewer as at present. The plant has been expanded several times over the years and complete plans of the piping systems are not available. The Lockwood Street storm sewer is located under the sidewalk in front of the Atlas plant. Connections could have been made without excavation in the street. Connections of unknown origin between manholes LW-3 and LW-1 appear to lead to drains in the Atlas plant complex. Fiske Brothers Refining Company, the industry across the street, is a less likely point of origin since they would have had to excavate the street and cross the sanitary sewer to make connections to the storm sewer. Atlas should be required to evaluate its piping and identify connections to the storm sewer. Any sanitary facilities, chemical processes, or drains that accept polluted flow should be reconnected to the sanitary sewer. Authorized discharges to the storm sewer should be made through a manhole or chamber to allow monitoring by the City.

2. Fiske Brothers Refining Company should be required to cease discharging oil and water into Esther Street and to prevent spills at their railroad siding. Fiske Brothers should be required to identify existing connections to the storm sewer. Connections that accept pollutants should be reconnected to the sanitary sewer. Connections that carry

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nonpolluted flow should be made through a chamber to facilitate monitoring by the City.

3. After Atlas and Fiske Brothers have evaluated their piping and reconnected lines as necessary, the remaining connections of unknown origin between LW-3 and LW-1 should be sealed as a precaution. Initially, temporary plugs should be installed. If the lines are active, a backup will be reported. If no problems occur after one month, the connections should be permanently sealed. The connections observed between LW-4 and LW-3 are believed to be roof drains from the Messinger Warehouse and abandoned inlet connections. They should not be sealed.

4. B-Line Trucking Company should be required to cease discharging black oily waste into Lister Avenue and Esther Street. The spillage that has already occurred should be cleaned up. This flow is believed to be the major source of black oil in the system.

5. Newark Boxboard Company should be required to evaluate its internal piping. Only nonpolluted flow should be discharged into the Morris Canal storm sewer. Polluted flow should be discharged into the Blanchard Street sanitary sewer after that line is cleaned. The City should monitor the flow at manhole MC-104 to assure compliance.

6. Associated Auto Body and Trucks, Inc. should be prohibited from dumping paint or other wastes into the Morris Canal storm sewer.

7. The car wash drains at the Sunoco Station should be reconnected to the sanitary sewer. Suitable grit removal and oil separation facilities should be provided.

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8. Cellomer Corporation should be required to clean up the spillage on their property and cease discharging oil into Cornelia Street. It should be noted that Cellomer was informed of this problem and cleanup operations were underway.

9. Sources of inflow should be eliminated. The cross connection at the intersection of Joseph Street and Lister Avenue should be sealed. The railroad siding drain on the south side of the Messinger Warehouse should be disconnected from the sanitary sewer. The Atlas roof and area drains have already been discussed.

10. The Lister Avenue storm sewer, west of Lockwood Street should be cleaned of debris, sediment and oily wastes.

8

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Business Summary
Executive Summary
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SCORES
Financial Stress
Credit Score Class
PAYMENTS
Payment Trends
Payment Summary
Payment Details
PUBLIC FILINGS
Liens
UCC Filings
Government Activity
HISTORY & OPERATIONS
History
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Operations
SIC & NAICS
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Overview

BUSINESS SUMMARY

About Business Summa

FISKE BROTHERS REFINING CO
129 Lockwood St
Newark, NJ 07105

D&B D-U-N-S Number: 00-215-3070

Rating Change

This is a **headquarters** location. Branch(es) or division(s) exist.

Web site:	www.lubriplate.com
Telephone:	973 589-9150
Fax:	973 589-4432
Chief executive:	RICHARD T MC CLUSKEY, CHB-PRES
Year started:	1870
Management control:	1953
Employs:	109 (34 here)
Financial statement date:	DEC 31 2004
Sales F:	$24,264,538
Net worth F:	$9,630,277
History:	CLEAR
Financial condition:	STRONG

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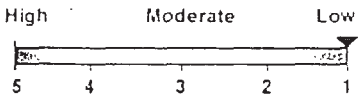
Credit Score Class: 1

Low risk of severe payment delinquency over next 12 months



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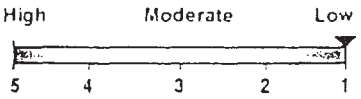
Financial Stress Class: 1

Low risk of severe financial stress over the next 12 months



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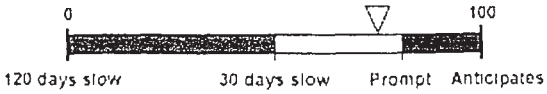
12-Month D&B PAYDEX®: 76

When weighted by dollar amount, payments to suppliers average 6 days beyond terms.



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D&B Rating: 3A1

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Understanding Financial Statements
Understanding Key Business Ratios
Submit a Credit Reference on this Business

SIC: 2992
• Jump to: SIC & NAICS Section

Line of business: Mfg greases & blends lubricating oils

Formerly 1R2

Financial strength: 3A is **$1 to 10 million.**

Composite credit appraisal: 1 is **high.**

• Jump to: Credit Capacity Summary

Corporate Family

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This business is at the top of the corporate family. Click the link below to view subsidiaries and branches.

View more family members

D&B EXCLUSIVE

EXECUTIVE SUMMARY

Back to Top

About Executive Summa

The **Financial Stress Class of 1** for this company shows that during the previous year, firms with this classification had a failure rate of 0.49% (49 per 10,000), which is lower than the national average.

The **Credit Score class of 1** for this company shows that during the previous year, 2.3% of the firms with this classification paid one or more bills severely delinquent, which is lower than the national average.

Financial information from a fiscal statement dated 12/31/04 is included.

Predictive Scores	This Business	Comments
Financial Stress Class	1	Failure Rate lower than the national average
Financial Stress Score	1526	Highest Risk: 1,001; Lowest Risk: 1,850
Credit Score Class	1	Probability of Severely Delinquent Payment is lower than the national average

Other Key Indicators		
Current PAYDEX	6 days beyond terms	Pays more promptly than the average for its industry of 8 days beyond terms
Industry Median	8 days beyond terms	
Present management control	52 years	
UCC Filings	UCC filing(s) are reported for this business	
Public Filings	No record of open Suit(s), Lien(s), or Judgment(s) in the D&B database	
History	Is clear	
Special Events	Are reported for this business	

CREDIT CAPACITY SUMMARY

Back to Top

About Credit Capacity Summa

D&B Rating: **3A1**

Financial strength: 3A indicates **$1 to 10 million.**

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Composite credit appraisal: 1 is **high**.

This credit rating was assigned because of D&B's assessment of the company's financial ratios and its cash flow. For more information, see the **D&B Rating Key**.

Sales:	$24,264,538	**Payment Activity:** (based on 74 experiences)	
# of Employees Total:	109 (34 here)		
As of 12/31/04		**Average High Credit:**	$8,670
Worth:	$9,630,277	**Highest Credit:**	$100,000
Working Capital:	$6,034,944	**Total Highest Credit:**	$622,450

Note: The Worth amount in this section may have been adjusted by D&B to reflect typical deductions, such as certain intangible assets.

SPECIAL EVENTS About Special Eve
Back to Top

11/15/2004
A Rating change has occurred on this company.

Jump to:

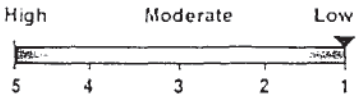
Overview | Payments | Public Filings | History & Operations | Banking & Finance

Scores D&B EXCLUSIVE

FINANCIAL STRESS SUMMARY About Financial Stress Summa
Back to Top

The Financial Stress Summary Model predicts the likelihood of a firm ceasing business without paying all creditors in full, or reorganization or obtaining relief from creditors under state/federal law over the next 12 months. Scores were calculated using a statistically valid model derived from D&B's extensive data files.

Financial Stress Class: **1**



Low risk of severe financial stress, such as a bankruptcy, over the next 12 months.

Incidence of Financial Stress

Among Businesses with this Classification:	0.49% (49 per 10,000)
National Average	1.40% (140 per 10,000)

Financial Stress National Percentile: **93** (Highest Risk: 1; Lowest Risk: 100)

Financial Stress Score: **1526** (Highest Risk: 1,001; Lowest Risk: 1,850)

The Financial Stress Class of this business is based on the following factors: FJK000038

- No record of open suit(s), lien(s), or judgement(s) in the D&B files.
- Control age or date entered in D&B files indicates lower risk.
- Payment experiences exist for this firm which are greater than 60 days past due.
- 9% of trade experiences indicate slow payment(s) are present.
- Business owns facilities.

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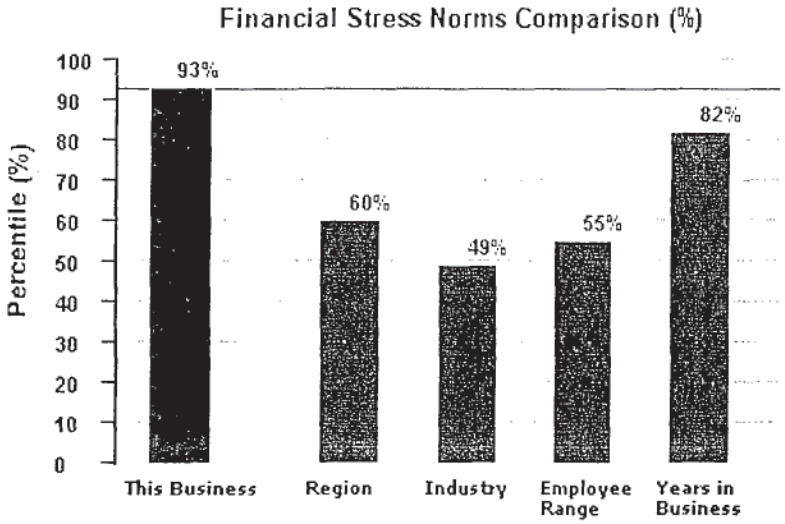
Notes:

- The Financial Stress Class indicates that this firm shares some of the same business and financial characteristics of other companies with this classification. It does not mean the firm will necessarily experience financial stress.
- The Incidence of Financial Stress shows the percentage of firms in a given Class that discontinued operation over the past year with loss to creditors. The Incidence of Financial Stress - National Average represents the national failure rate and is provided for comparative purposes.
- The Financial Stress National Percentile reflects the relative ranking of a company among all scorable companies in D&B's file.
- The Financial Stress Score offers a more precise measure of the level of risk than the Class and Percentile. I is especially helpful to customers using a scorecard approach to determining overall business performance.
- All Financial Stress Class, Percentile, Score and Incidence statistics are based on 2002.



Region=MIDDLE ATLANTIC
Industry=MANUFACTURING
Employee Range=100-499
Years in Business=26+

Norms	National %
This Business	93
Region: **MIDDLE ATLANTIC**	60
Industry: **MANUFACTURING**	49
Employee Range: **100-499**	55
Years in Business: **26+**	82

This business has a Financial Stress Percentile that shows:

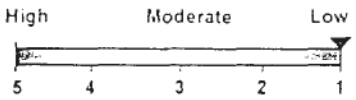
- Lower risk than other companies in the same region.
- Lower risk than other companies in the same industry.
- Lower risk than other companies in the same employee size range.
- Lower risk than other companies with a comparable number of years in business.

CREDIT SCORE CLASS SUMMARY (?) About Credit Score Class Summ

Back to Top

The Credit Score class predicts the likelihood of a firm paying in a severely delinquent manner (90+ Days Past Terms) over the next twelve months. It was calculated using statistically valid models and the most recent paymer information in D&B's files.

Credit Score Class: **1**



Low risk of severe payment delinquency over next 12 months.

Incidence of Delinquent Payment

FJK000039

Among Companies with this Classification: 2.30%

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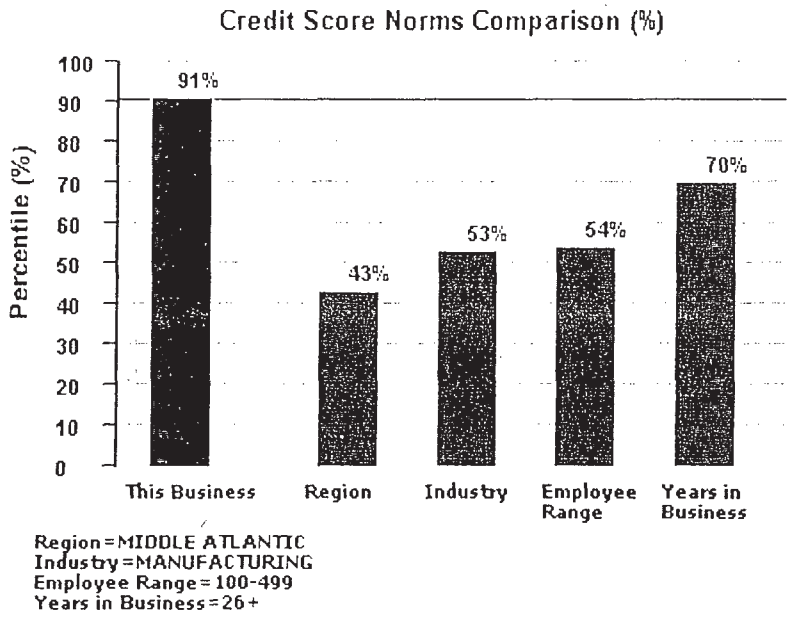
Credit Score Percentile: 91 (Highest Risk: 1; Lowest Risk: 100)

The Credit Score Class of this business is based on the following factors:

- Control age or date entered in D&B files indicates lower risk.
- No record of open suit(s), lien(s), or judgments(s) in the D&B files.
- D&B files indicate a net worth of $9,630,277.
- Quick ratio is 1.1.

Notes:

- The Incidence of Delinquent Payment is the percentage of companies with this classification that were reported 90 days past due or more by creditors. The calculation of this value is based on an inquiry weighte sample.
- The Percentile ranks this firm relative to other businesses. For example, a firm in the 80th percentile has a lower risk of paying in a severely delinquent manner than 79% of all scorable companies in D&B's files.



Norms	National %
This Business	91
Region: **MIDDLE ATLANTIC**	43
Industry: **MANUFACTURING**	53
Employee Range: **100-499**	54
Years in Business: **26+**	70

This business has a Credit Score Percentile that shows:

- Lower risk than other companies in the same region.
- Lower risk than other companies in the same industry.
- Lower risk than other companies in the same employee size range.
- Lower risk than other companies with a comparable number of years in business.

Jump to:

Overview | Scores | Public Filings | History & Operations | Banking & Finance

Payments D&B EXCLUSIVE

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PAYMENT TRENDS (?) About Payment Trer

Back to Top

Total Payment Experiences in D&B's File: 74

Current PAYDEX is: **76** equal to 6 days

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				beyond terms
Payments Within Terms: (not dollar weighted)	94%	**Industry Median is:**	**75**	equal to 8 days beyond terms
Total Placed For Collection:	0	**Payment Trend currently is:**		**unchanged,** compared to payments three months ago
Average Highest Credit:	$8,670			
Largest High Credit:	$100,000			
Highest Now Owing:	$85,000			
Highest Past Due:	$65,000			

Indications of slowness can be the result of dispute over merchandise, skipped invoices, etc. Accounts are sometimes placed for collection even though the existence or amount of the debt is disputed.

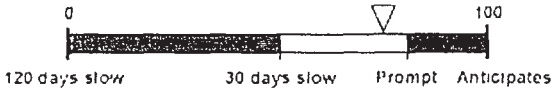
PAYDEX Scores
Back to Top

About PAYDEX Scor

Shows the D&B PAYDEX scores as calculated on the most recent 3 months and 12 months of payment experiences

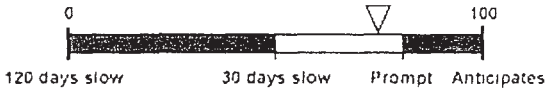
The D&B PAYDEX is a unique, dollar weighted indicator of payment performance based on up to payment experiences as reported to D&B by trade references. A detailed explanation of how to read and interpret PAYDEX scores can be found at the end of this report.

3-Month D&B PAYDEX: 75
When weighted by dollar amount, payments to suppliers average 8 days beyond terms.



Based on payments collected over last 3 months.

12-Month D&B PAYDEX: 76
When weighted by dollar amount, payments to suppliers average 6 days beyond terms.



Based on payments collected over last 12 months.

D&B PAYDEX Key

- High risk of late payment (average 30 to 120 days beyond terms)
- Medium risk of late payment (average 30 days or less beyond terms)
- Low risk of late payment (average prompt to 30+ days sooner)

PAYDEX Yearly Trend
Back to Top

About PAYDEX Yearly Tre

12 Month PAYDEX Scores Comparison to Industry

	1/05	2/05	3/05	4/05	5/05	6/05	7/05	8/05	9/05	10/05	11/05	12/05
This Business	79	77	76	76	76	76	76	75	76	76	76	76
Industry Quartiles												
Upper			79			79			79			79
Median			75			76			75			75
Lower			69			69			69			68

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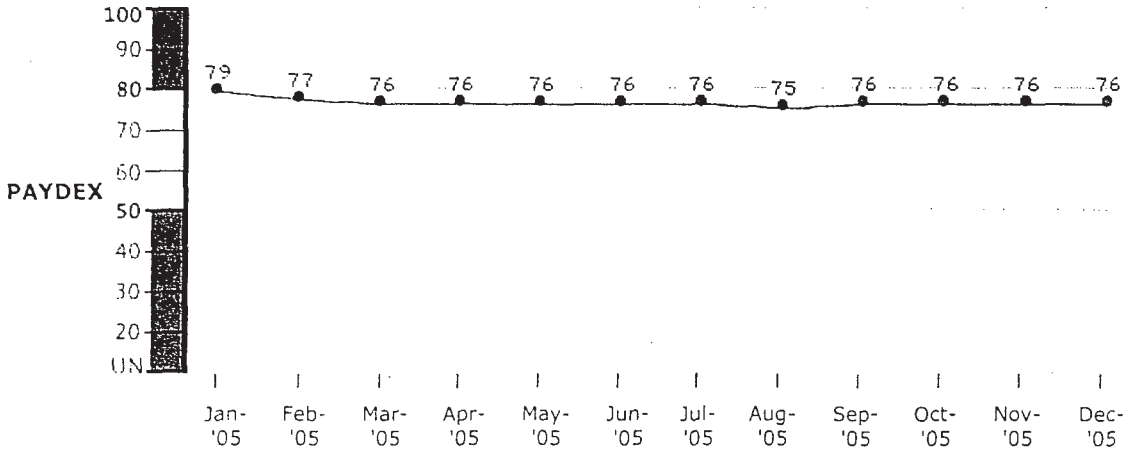
Shows the trend in D&B PAYDEX scoring over the past 12 months.



Last 12 Months

Based on payments collected over the last 12 months.

- Current PAYDEX for this Business is 76, or equal to 6 days beyond terms
- The 12-month high is **79**, or equal to 2 days beyond terms
- The 12-month low is **75**, or equal to 8 days beyond terms

PAYDEX Comparison to Industry

Back to Top

About PAYDEX Comparison to Indus

Shows PAYDEX scores of this Business compared to the Primary Industry from each of the last four quarters. The Primary Industry is Mfg greases & blends lubricating oils, based on SIC code 2992.

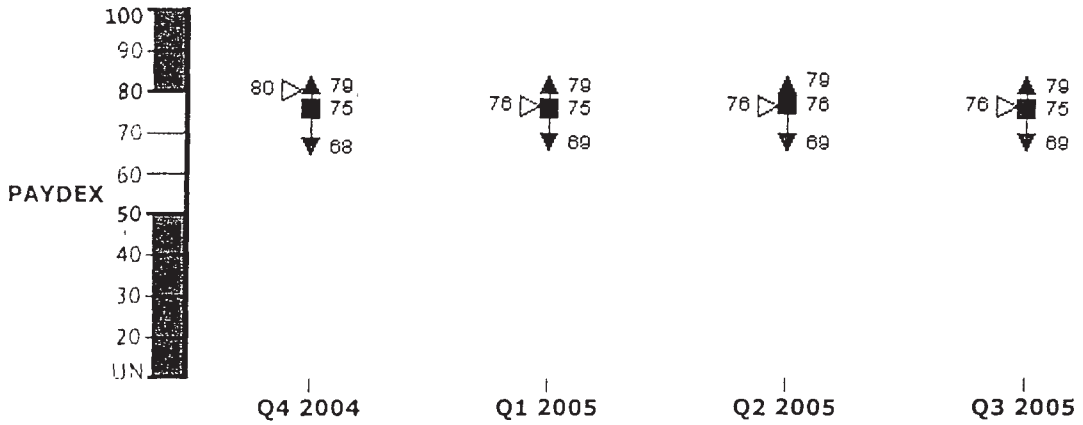
Quarterly PAYDEX Scores Comparison to Industry

Previous Year

	12/03	3/04	6/04	9/04
This Business	UN	76	79	79
Industry Quartiles				
Upper	79	79	79	79
Median	75	75	75	75
Lower	69	69	69	68

Current Year

	12/04	3/05	6/05	9/05
This Business	80	76	76	76
Industry Quartiles				
Upper	79	79	79	79
Median	75	75	76	75
Lower	68	69	69	69



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Last 12 Months

Based on payments collected over the last 4 quarters.

Score Comparison Key: ▷ This Business ▲ Industry upper quartile ■ Industry median ▼ Industry lower quartile

- Current **PAYDEX** for this Business is **76**, or equal to 6 days beyond terms
- The present industry **median score** is **75**, or equal to 8 days beyond terms.

- Industry upper quartile represents the performance of the payers in the 75th percentile
- Industry lower quartile represents the performance of the payers in the 25th percentile

Payment Habits
Back to Top

About Payment Hat

For all payment experiences within a given amount of credit extended, shows the percent that this Business paid within terms. Provides number of experiences used to calculate the percentage, and the total dollar value of the credit extended.

$ Credit Extended	% of Payments Within Terms	# Payment Experiences	$ Total Dollar Amount
Over 100,000	83%	3	$300,000
50,000-100,000	100%	2	$105,000
15,000-49,999	86%	4	$105,000
5,000-14,999	100%	6	$40,000
1,000-4,999	87%	18	$28,500
Under 1,000	97%	35	$11,100

0% 50% 100%

Based on payments collected over the last 12 months.

Payment experiences reflect how bills are met in relation to the terms granted. In some instances, payment beyond terms can be the result of disputes over merchandise, skipped invoices, etc.

PAYMENT SUMMARY
Back to Top

About Payment Summa

The Payment Summary section reflects payment information in D&B's file as of the date of this report.

There are 74 payment experiences in D&B's file for the most recent 12 months, with 58 experiences reported during the last three month period.

Below is an overview of the company's dollar-weighted payments, segmented by its suppliers' primary industries:

Total Rcv'd (#)	Total Dollar Amts ($)	Largest High Credit ($)	Within Terms (%)	Days Slow <31 31-60 61-90 90> (%)

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Top industries:

Trucking non-local	20	15,950	2,500	91	9	0	0	0
Nonclassified	7	31,250	10,000	100	0	0	0	0
Telephone communictns	4	900	500	100	0	0	0	0
Mfg inorganic chemcls	3	155,000	100,000	100	0	0	0	0
Whol electrical equip	3	1,350	1,000	100	0	0	0	0
Radiotelephone commun	3	650	500	100	0	0	0	0
Short-trm busn credit	3	1,250	500	90	10	0	0	0
Petroleum refining	2	155,000	100,000	100	0	0	0	0
Whol industrial suppl	2	100,250	100,000	50	50	0	0	0
Misc business credit	2	1,250	750	100	0	0	0	0
Mfg metal cans	1	50,000	50,000	100	0	0	0	0
Paperboard mill	1	30,000	30,000	50	0	0	0	50
Whol chemicals	1	20,000	20,000	100	0	0	0	0
Sawmill/planing mill	1	5,000	5,000	100	0	0	0	0
Mfg millwork	1	5,000	5,000	100	0	0	0	0
Whol misc profsn eqpt	1	5,000	5,000	100	0	0	0	0
Mfg crowns/closures	1	2,500	2,500	50	50	0	0	0
Whol industrial equip	1	2,500	2,500	100	0	0	0	0
General warehousing	1	2,500	2,500	50	50	0	0	0
Ret mail-order house	1	1,000	1,000	100	0	0	0	0
Natural gas distrib	1	1,000	1,000	100	0	0	0	0
Ret-direct selling	1	750	750	100	0	0	0	0
Mfg photograph equip	1	250	250	100	0	0	0	0
Mfg paint/allied prdt	1	250	250	100	0	0	0	0
Regulate trnsprtation	1	250	250	100	0	0	0	0
Mfg industrial gases	1	250	250	100	0	0	0	0
Whol durable goods	1	250	250	100	0	0	0	0
Whol electronic parts	1	100	100	100	0	0	0	0
Whol service paper	1	100	100	100	0	0	0	0
Whol hardware	1	50	50	100	0	0	0	0
Whol metal	1	0	0	0	0	0	0	0

Other payment categories:

Cash experiences	0	0	0
Payment record unknown	4	32,850	25,000
Unfavorable comments	0	0	0

Placed for collections:

With D&B	0	0	0
Other	0	N/A	0
Total in D&B's file	74		100,000

The highest **Now Owes** on file is $85,000 The highest **Past Due** on file is $65,000

Accounts are sometimes placed for collection even though the existence or amount of the debt is disputed. Indications of slowness can be result of dispute over merchandise, skipped invoices, etc.

PAYMENT DETAILS

Back to Top

About Payment Deta

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Detailed payment history

Date Reported	Paying Record	High Credit	Now Owes	Past Due	Selling Terms	Last Sale

932110059

(mm/yy)		($)	($)	($)		Within (months)
11/05	Ppt	30,000	0	0		1 mo
	Ppt	5,000	5,000	0		1 mo
	Ppt	2,500	750	0	N15	1 mo
	Ppt	1,000	1,000	0		1 mo
	Ppt	1,000	100	0	N15	1 mo
	Ppt	500	0	0		1 mo
	Ppt	250	0			2-3 mos
	Ppt	250	0	0	N15	1 mo
	Ppt	250	0	0	N15	4-5 mos
	Ppt	0	0	0		6-12 mos
	Ppt-Slow 30	2,500	2,500	0	N15	1 mo
	Ppt-Slow 30	2,500	2,500	750		1 mo
	(013)	25,000	15,000			1 mo
	(014)	7,500	7,500	0	N30.	1 mo
	(015)	100	0	0		1 mo
10/05	Ppt	100,000	0	0		1 mo
	Ppt	100,000	85,000	20,000		1 mo
	Ppt	50,000	2,500	0	N30	1 mo
	Ppt	25,000	25,000	0		1 mo
	Ppt	10,000	0	0		4-5 mos
	Ppt	7,500	0	0		1 mo
	Ppt	5,000	250	0		1 mo
	Ppt	5,000	2,500	0	N30	1 mo
	Ppt	2,500	0	0		1 mo
	Ppt	2,500	750	0		1 mo
	Ppt	1,000	250	250		1 mo
	Ppt	1,000	0	0		2-3 mos
	Ppt	1,000	0	0		2-3 mos
	Ppt	1,000	100	0		1 mo
	Ppt	1,000	0	0	N30	2-3 mos
	Ppt	1,000	750	0	N30	1 mo
	Ppt	1,000	500	0		1 mo
	Ppt	750	0	0		6-12 mos
	Ppt	750	0	0	N30	4-5 mos
	Ppt	500	100	0		1 mo
	Ppt	500	50	0		1 mo
	Ppt	500	0	0		6-12 mos
	Ppt	500	0	0		4-5 mos
	Ppt	250	0	0		1 mo
	Ppt	250	0	0		1 mo
	Ppt	250	100	0		1 mo
	Ppt	250	0	0	N30	4-5 mos
	Ppt	250	0	0		2-3 mos
	Ppt	250	0	0		2-3 mos
	Ppt	100	100	0		1 mo
	Ppt	100	0	0		2-3 mos
	Ppt	50	0	0	N30	6-12 mos
	Ppt	50	50	0		1 mo
	Ppt	0	0	0	N15	6-12 mos

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	Ppt-Slow 30	100,000	75,000	65,000		1 mo
	Ppt-Slow 30	2,500	0	0		2-3 mos
	Ppt-Slow 90+	30,000	25,000	0		1 mo
	(053)	250	250	0	N30	
09/05	Ppt	750	50		Lease Agreemnt	
	Ppt	500	250	0		1 mo
	Ppt	500	500	0		1 mo
	Ppt-Slow 30	250	50	0		1 mo
	(058)	250				1 mo
	Satisfactory.					
08/05	Ppt	1,000	0	0	N30	6-12 mos
	Ppt	750	0	0		1 mo
	Slow 30	250	0	0		6-12 mos
06/05	Ppt	250	0	0		2-3 mos
	Ppt	100	0	0		6-12 mos
05/05	Ppt	7,500	0	0		6-12 mos
	Ppt	2,500	0	0		6-12 mos
04/05	Ppt	500	500	0		1 mo
	Ppt	100	0	0	N30	6-12 mos
01/05	Ppt	1,000	250	0		1 mo
	Ppt	100	0	0	N30	6-12 mos
	Ppt	100	0	0		2-3 mos
	Ppt	50	0	0	N30	6-12 mos
12/04	Ppt	100	0	0	N30	6-12 mos
09/04	Ppt	55,000	55,000	0		1 mo
	Ppt	20,000	0	0		6-12 mos

Payments Detail Key: ■ 30 or more days beyond terms

Payment experiences reflect how bills are met in relation to the terms granted. In some instances payment beyond terms can be the result of disputes over merchandise, skipped invoices etc.

Each experience shown is from a separate supplier. Updated trade experiences replace those previously reported.

Jump to:

Overview | Scores | Payments | History & Operations | Banking & Finance

Public Filings

PUBLIC FILINGS

Back to Top

The following data includes both open and closed filings found in D&B's database on the subject company.

Record Type	# of Records	Most Recent Filing Date
Bankruptcy Proceedings	0	-
Judgments	0	-
Liens	1	09/30/1998
Suits	0	-
UCC's	5	11/12/2004

FJK000046

The following Public Filing data is for information purposes only and is not the official record. Certified copies can

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only be obtained from the official source.

LIENS
Back to Top

About Lie

A lienholder can file the same lien in more than one filing location. The appearance of multiple liens filed by the same lienholder against a debtor may be indicative of such an occurrence.

Amount:	**$4,649**
Status:	**Released**
DOCKET NO.:	98JG14029
Type:	State Tax
Filed by:	STATE OF OHIO
Against:	FISKE BROTHERS REFINING COMPANY
Where filed:	FRANKLIN COUNTY COMMON PLEAS COURT, COLUMBUS, OH
Date status attained:	12/03/1998
Date filed:	09/30/1998
Latest Info Received:	11/25/2002

UCC FILINGS
Back to Top

About UCC Filir

Collateral:	Negotiable instruments including proceeds and products - Inventory including proceeds and products - Accounts receivable including proceeds and products - Assets including proceeds and products - and OTHERS
Type:	Original
Sec. party:	SOVEREIGN BANK, ITS SUCCESSORS AND/OR ASSIGNS, PRINCETON, NJ
Debtor:	FISKE BROTHERS REFINING COMPANY
Filing number:	0411121139216
Filed with:	SECRETARY OF STATE/UCC DIVISION, ALBANY, NY
Date filed:	11/12/2004
Latest Info Received:	11/18/2004

Collateral:	Products - Proceeds - LEASES,SPECIFIC EQUIPMENT
Type:	Original
Sec. party:	AT & T CREDIT CORPORATION, PARSIPPANY, NJ
Debtor:	FISKE BROTHERS REFINING CO INC
Filing number:	AM91788
Filed with:	SECRETARY OF STATE/UCC DIVISION, COLUMBUS, OH
Date filed:	07/29/1996
Latest Info Received:	09/06/1996

Collateral:	Leased Equipment
Type:	Original
Sec. party:	LYNNRAY FINANCIAL CORPORATION, NORCROSS, GA
Debtor:	FISKE BROTHERS REFINING COMPANY, TOLEDO, OH
Filing number:	AP305622
Filed with:	SECRETARY OF STATE/UCC DIVISION, COLUMBUS, OH
Date filed:	01/04/2001
Latest Info Received:	03/16/2001

Collateral:	Leased CONSIGNED MERCHANDISE including proceeds and products
Type:	Original
Sec. party:	AT&T CREDIT CORPORATION, PARSIPPANY, NJ
Debtor:	FISKE BROTHERS REFINING CO INC
Filing number:	1699926
Filed with:	SECRETARY OF STATE/UCC DIVISION, TRENTON, NJ
Date filed:	05/22/1996
Latest Info Received:	06/17/1996

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Type:	Continuation
Sec. party:	FIRST UNION NATIONAL BANK F/K/A FIRST FIDELITY BANK, N.A., N.J., NEWARK, NJ
Debtor:	FISKE BROTHERS REFINING COMPANY
Filing number:	1465009
Filed with:	SECRETARY OF STATE/UCC DIVISION, TRENTON, NJ
Date filed:	05/16/1997
Latest Info Received:	07/15/1997
Original UCC filed date:	07/16/1992
Original filing no.:	1465009

The public record items contained in this report may have been paid, terminated, vacated or released prior to the date this report was printed.

GOVERNMENT ACTIVITY About Government Activ
Back to Top

Activity summary

Borrower (Dir/Guar):	NO
Administrative debt:	NO
Contractor:	NO
Grantee:	NO
Party excluded from federal program(s):	NO

Possible candidate for socio-economic program consideration

Labor surplus area:	YES (2005)
Small Business:	YES (2005)
8(A) firm:	N/A

The details provided in the Government Activity section are as reported to Dun & Bradstreet by the federal government and other sources.

Jump to:

Overview | Scores | Payments | Public Filings | Banking & Finance

History & Operations

HISTORY About Histo
Back to Top

The following information was reported **09/15/2004**:

Officer(s): RICHARD T MC CLUSKEY, CHB-PRES
EMMETT F BARRETT, V PRES-TREAS
JAMES GIRARD, V PRES-GEN MGR
ROBERT A REH, EXECUTIVE VICE-PRESI
MICHAEL J MCCLUSKEY, SECRETARY

DIRECTOR(S): THE OFFICER(S)

Business started 1870 by Thomas and Frederick Fiske. Present control succeeded 1953. 100% of capital stock is owned by officers.

RICHARD T MC CLUSKEY born 1943. EDUCATION: Graduated from Rutgers University, Newark, NJ. INDUSTRY EXPERIENCE: Employed here since 1962, elected officer 1974.

EMMETT F BARRETT born 1944. EDUCATION: Graduated from St Peter's College, Jersey City, NJ. INDUSTRY EXPERIENCE: Started here 1962, elected officer 1982.

FJK000048

JAMES GIRARD born 1956. EDUCATION: Graduated from Seton Hall University, South Orange, NJ. INDUSTRY EXPERIENCE: Employed here since 1980 as district manager and salesman, named vice president and general manager in 1981.

ROBERT A REH. antecedents ARE UNDETERMINED.

CORPORATE FAMILY About Corporate Fam
Back to Top

View the interactive global family tree for this business - now included as part of your Preferred Pricing subscription.

For more details on the Corporate Family, view the interactive global family tree

Branches (US):
Select companies below to buy Business Information Report(s).

Fiske Brothers Refining Co	Toledo, OH	DUNS # 00-504-3690

BUSINESS REGISTRATION About Business Registrat
Back to Top

CORPORATE AND BUSINESS REGISTRATIONS PROVIDED BY MANAGEMENT OR OTHER SOURCE

The Corporate Details provided below may have been submitted by the management of the subject business and may not have been verified with the government agency which records such data.

Registered Name: Fiske Brothers Refining Co (Inc)

Business type: CORPORATION
Corporation type: PROFIT
Date incorporated: FEB 10 1891
State of incorporation: NEW YORK

Common stock
Authorized shares: 21,600
Par value: NO PAR VALUE

Where filed: Secretary of State, Albany, NY

OPERATIONS About Operatic
Back to Top

09/15/2004

Description: Manufactures greases and blends lubricating oils. ISO 9001/QS-9000 Registered Quality System.

ADDITIONAL TELEPHONE NUMBER(S): Facsimile (Fax) 973 589-4432.

Terms are Terms are cash, check or credit card, net 30 days and 2% 10 net 30 days. Has 3,000 account(s). Sells to manufacturers, retail and commercial concerns. Territory : USCAN.

Nonseasonal.

Employees: 109 which includes officer(s). 34 employed here.

Facilities: Owns 100,000 sq. ft. in two story brick building.

Location: Industrial section on side street.

Branches: The business also owns a 180,000 sq. ft. facility at 1500 Oakdale Ave, Toledo, OH where all manufacturing is conducted as of Dec 1991.

FJK000049

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SIC & NAICS
Back to Top

About SIC & NAI

SIC:

Based on information in our file, D&B has assigned this company an extended 8-digit SIC. D&B's use of 8-digit SICs enables us to be more specific to a company's operations than if we use the standard 4-digit code.

The 4-digit SIC numbers link to the description on the Occupational Safety & Health Administration (OSHA) Web site. Links open in a new browser window.

29929901 Oils and greases, blending and compounding

NAICS:

324191 Petroleum Lubricating Oil and Grease Manufacturing

Jump to:

Overview | Scores | Payments | Public Filings | History & Operations

Banking & Finance

STATEMENT UPDATE
Back to Top

About Statement Upd

05/24/2005

Fiscal statement dated DEC 31 2004:

Assets		Liabilities	
Cash	2,312,373	Accounts Payable & Accruals	4,422,932
Accts Rec	2,350,616		
Inventory	5,101,301		
Refundable Taxes	108,000		
Deferred Income Taxes	244,305		
Advances To Employees	27,530		
Deferred Financing Costs-Net	26,280		
Prepaid	287,471		
Curr Assets	**$10,457,876**	**Curr Liabs**	**$4,422,932**
Fixt & Equip	4,740,388	L.T. Liab-Other	4,899,079
Prepaid Income Taxes	362,000	CAPITAL STOCK	2,160,000
Investments-Other	867,244	ACCUM OTHER COMPREHENSIVE LOSS-NET	(128,964)
Other Assets	2,524,780	RETAINED EARNINGS	14,760,590
		TREASURY STOCK	(7,161,349)
Total Assets	**$18,952,288**	**Total**	**$18,952,288**

Extent of audit, if any, not indicated.

Fixed assets shown net less $6,520,556 depreciation.

BANKING

About Bank

FJK000050

932110065

Back to Top

BANK: First Union Bank, Newark, NJ

KEY BUSINESS RATIOS
Back to Top

About Key Business Rat

Statement date: DEC 31 2004
Based on this number of establishments: 26

Industry Norms based on 26 establishments

	This Business	Industry Median	Industry Quartile
Profitability			
Return on Sales	UN	2.2	UN
Return on Net Worth	UN	15.6	UN
Short-Term Solvency			
Current Ratio	2.4	2.1	2
Quick Ratio	1.1	1.1	2
Efficiency			
Assets Sales	78.1	41.2	4
Sales / Net Working Capital	UN	8.2	UN
Utilization			
Total Liabs / Net Worth	96.8	112.8	2

UN = Unavailable

FINANCE
Back to Top

About Finar

09/15/2004

Three-year statement comparative:

	Fiscal Dec 31 1999	Fiscal Dec 31 2000	Fiscal Dec 31 2001
Current Assets	12,694,947	11,114,757	11,603,747
Current Liabs	2,471,821	2,498,664	2,121,741
Current Ratio	5.14	4.45	5.47
Working Capital	10,223,126	8,616,093	9,482,006
Other Assets	10,411,756	10,893,678	10,156,401
Net Worth	19,034,997	17,896,846	17,851,791
Sales	15,000,000		
Long Term Liab	1,599,885	1,612,925	1,786,616

Fiscal statement dated DEC 31 2002:

Assets		**Liabilities**	
Cash	5,077,436	Accts Pay	2,103,650
Accts Rec	1,929,079		
Inventory	4,589,750		

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Refundable Taxes	120,000		
Deferred Income Taxes	298,000		
Due from Employees	37,187		
Prepaid	99,637		
Curr Assets	**$12,151,089**	**Curr Liabs**	**$2,103,650**
Fixt & Equip	5,428,161	L.T. Liab-Other	1,921,109
Defered Charges	3,423,240	CAPITAL STOCK	2,160,000
Investments-Other	814,404	Treasury Stock	(1,645,152)
		RETAINED EARNINGS	17,277,287
Total Assets	**$21,816,894**	**Total**	**$21,816,894**

From JAN 01 2002 to DEC 31 2002 annual sales $24,264,538; cost of goods sold $12,333,494. Gross profit $11,931,044; operating expenses $10,473,498. Operating income $1,457,546; other expenses $674,342; net income before taxes $783,204; Federal income tax $122,718. Net income $660,486.

Submitted by E F Barrett, V Pres Treasurer. Extent of audit, if any, not indicated.

Fixed assets shown net less $5,333,920 depreciation.

Sources contacted verified information on September 7, 2004.

CUSTOMER SERVICE

Back to Top

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Finding Aid: Trade Catalogs: New Brunswick - North Hackensack

- New Brunswick
- New Egypt
- New Hampton
- New Market
- Newark
- North Bergen
- North Brunswick
- North Hackensack
- Nutley

N

New Brunswick

The American and the Wishbone.
New Brunswick, N.J.: American Incubators Inc., 1929.
Illustrated catalog of incubators to raise chicks.
[Size 3]

The American and the Wishbone Mammoth Incubators.
New Brunswick, N.J.: American Incubators Inc., 1929.
Advertisement and price list for incubators to raise chicks.
[Size 2]

The Annihilator cough syrup.
New Brunswick, N.J.: McDonald & Sons Druggists, [1852].
Includes other drugs the store sold.
[Size 1]

Annual descriptive catalogue of garden, field and flower seeds.
New Brunswick, N.J.: Cherry Lawn Farm, 1872.
Also includes vegetable plants, seed potatoes, fertilizers, small fruits and books.
[Size 1]

Brunswick Blueprint Co.
New Brunswick, N.J.: Brunswick Blueprint Co., 1983.
[Size 1]

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The Brunswick refrigerating and ice making machinery reference list.
New Brunswick, N.J.: The Brunswick Refrigeration Co., [s.a.].
[Size 1]

932110069

The long distance electric truck.
Newark, N.J.: Atlantic Vehicle Co., [s.a.].
Factory located in Newark.
[Size 2]

Longer routes.
Newark, N.J.: Atlantic Vehicle Company, [s.a.].
[Size 1]

Lubriplate, the white waterproof lubricant: best for reels and guns!
Newark, N.J.: Lubriplate Division, Fiske Brothers Refining Co., [between 1950 and 1960].
[Size 3]

The Macknet rocking grate.
Newark, N.J.: The Macknet Grate Bar Co., [1896].
Rocking grate for more efficient industrial coal burning.
[Size 1]

Made expressly for Westcott Motor Car Co. by Radel Leather Manufacturing Co.
Newark, N.J.: Radel Leather Manufacturing Co., 1917.
Automobile Spanish Leather.
[Size 4]

Magnolia isotropic die-cast bearing bronze.
Newark, N.J.: Magnolia Metal Company, Inc., [19--].
[Size 2]

Maintenance catalogue and selection guide to air filters for air conditioning, heating & ventilating.
Newark, N.J.: Mercury Filter Corp., [19--].
[Size 2]

Make any wall a thrilling "picture window" with a Foto Mural in natural color.
Newark, N.J.: Damar Products, Inc., 1954.
[Size 2]

Maltbie pharmaceutical products.
Newark, N.J.: The Maltbie Chemical Co., 1933.
Detailed descriptions and prices of pharmaceutical compounds and products.
[Size 1]

Mapes complete manures.
New York, N.Y.: The Mapes Formula and Peruvian Guano Co., 1886.
Works at Newark, N.J., for sale by Thos. Lupton, Matawan, N.J.
[Size 1]

Mercury's free introductory conversion kit offer.
Newark, N.J.: Mercury Filter Corp., [19--].
[Size 2]

The Merrill Shops.
Newark, N.J.: The Merrill Shops, [ca. 1930].
Catalog and prices of pewter.
[Size 1]

FJK000054

Miniature catalogue.
Newark, N.J.: Thomas Kelly, Manufacturer, [between 1890 and 1909].

932110070

Success Stories

View Stories By: State | Center | Highlights | Search

Fiske Brothers Refining Co

Center Name: Ohio Manufacturing Extension Partnership

Client Profile: Fiske Brothers Refining Company manufactures and distributes lubricating grease and oil products for the industrial, automotive, food, beverage and pharmaceutical industries. Its facilities--in Toledo, Ohio and Newark, New Jersey--employ less than 100 people

Situation: Fiske Brothers knows that to stay in business 130 years a business has to be adaptable, responsive, progressive, and well informed. Fiske Brothers opened its doors in 1871 in a world with no automobiles, typewriters or telephones. Today, Fiske is registered in the most progressive quality standards currently accepted in the industry: QS 9000, ISO 9001, and it is pursuing ISO 14001. The company also is implementing lean manufacturing techniques within its operations and exploring eBusiness strategies.

A quality system surveillance audit by Fiske's registrar in 1999 revealed nonconforming procedures in element 4.2, Advanced Product Quality Planning and Control Plans. For assistance correcting the problem, Quality Manager Jacki Dusza contacted the Lake Erie Manufacturing Extension Partnership (LEMEP), a NIST MEP network affiliate, because she was already pleased with the resource center's internal auditor training programs. Fiske Brothers engaged LEMEP to revise and streamline the portion of the plans and processes that had failed the audit.

Solution: LEMEP team members conducted an ISO gap analysis to address the problem. The company applied lean techniques to solve the issue and regain compliance. Over the past few years, Fiske Brothers has worked with LEMEP and its host organization, EISC, Inc., on several projects. The company sent employees for training at EISC, and received hands-on training at its own facility. In mid-2000, Fiske worked with LEMEP on additional ISO/QS 9000 internal auditor training and an ISO 9001:2000 update. In 2001, Fiske Brothers sent teams of associates to LEMEP for Lean 101 and ISO 14001 internal auditor training. LEMEP has also assisted the company in finding ways to reduce energy costs, resulting in significant savings.

Results: Identified steam leaks and repaired boiler system to reduce natural gas costs by $20,000 per year. Decreased monthly energy costs by staggering motor starts throughout the day.
Addressed ISO 14001 gaps to comply with quality standards.
Participated in internal auditor training

Testimonial: *"The Lake Erie Manufacturing Extension Partnership walked us through all aspects of environmental management. It's nearly impossible to put a dollar value on LEMEP's knowledge and background in environmental applications, regulations, and standards."*

Jacki Dusza, Quality Manager

Activity Period: 2001-4

Back
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- Hydraulic Oils
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- Spray Lubricants, Grease Cartridges and Tubes

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LUBRIPLATE®

Lubrication Data Book

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Contents

Multi-Purpose Synthetic Fluids

4-5 Air Compressor Fluids

6 Hydraulic Oils

7 Multi-Purpose Greases

8 Greases For Special Applications

9 Gear, Bearing & Recirculating Oils

10 Specialty Lubricants

11-13 Food Machinery Lubricants NSF H-1 Class

14 Automotive Lubricants
Motor Oils
Metal Working Fluids

15 Packaging Containers
Spray Lubricants, Grease Cartridges and Tubes

16 General Application Chart
Lubricant Classification Comparison Chart
Lubriplate District Managers

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LUBRIPLATE DIVISION / Fiske Brothers Refining Company

Corporate Headquarters / 129 Lockwood Street / Newark, NJ 07105
PHONE 800-733-4755 / FAX 973-589-4432 / FAX 800-347-5329

Midwest Office & Plant / 1500 Oakdale Ave. / Toledo, OH 43605
PHONE 419-691-2491 / FAX 419-693-3806 / FAX 800-347-5348

www.lubriplate.com or Email us at info@lubriplate.com

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Introduction

To: Our LUBRIPLATE Distributors and Consumers

Ladies and Gentlemen:

Thank you for your interest in LUBRIPLATE Lubricants. For 135 years, our Company has manufactured and sold only the highest quality lubricants to all types of industry. The advent of ISO-9000 has given us the opportunity to prove that "*we practice what we preach.*" As an ISO-9001 registered company, all of our employees have totally committed themselves to developing, manufacturing and selling quality products that meet and exceed your expectations. Our commitment to maintaining ISO-9001 certification provides us with a bright and strong future. We appreciate your consideration of LUBRIPLATE Lubricants. We realize that we must constantly work to earn and maintain your trust.

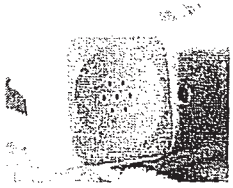
Sincerely,

Richard T. McCluskey

Richard T. McCluskey
President and Chief Executive Officer
e-mail: RichardM@lubriplate.com

ISO 9001 Registered Quality System

Complimentary Value Added Services Offered



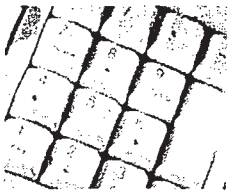
Toll Free Technical Support Hotline:

Call our technical service center toll free at **800-347-5343** for answers to your lubrication questions by phone, or contact your nearest Lubriplate district manager (listed on back cover) or your local distributor representative for complete technical support.

FJK000060

Complete Plant Surveys and Lubricant Inventory Consolidation:

Complete plant surveys by our professional staff of lubrication engineers are also available to determine your exact lubricant requirements and identify opportunities for lubricant inventory consolidation and lubricant application consolidation.

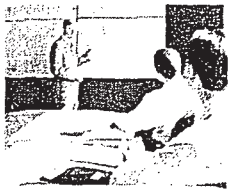


Lubrication Maintenance Software:

Lubriplate offers a PC based computer software program that puts your entire lubrication and maintenance schedules at your fingertips. This service is based on a complete survey of your entire plant. Contact Dan Moroses (Newark office) for details at **973-589-9150**.

No-Charge Oil / Fluid and Grease Analysis:

We encourage the use of our Fluid and Grease Analysis Program that is offered at no-charge on all Lubriplate products. Tests that are performed include: Viscosity, Acidity, Contamination (% sediment and % moisture,) Spectrochemical (PPM of wear metals and additives) ISO Cleaniiness (optional). An interpretation of the results is included along with suggested actions to take.

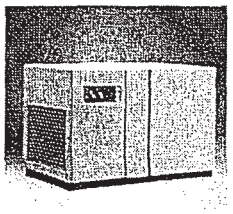


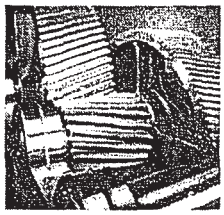
In Plant User Lubrication Training and Distributor Training:

Lubriplate offers training programs tailored to fit your needs. Our lubrication engineering training sessions are not glorified sales meetings. Rather, they discuss all facets of machinery lubrication, lubricants and correct lubricant selection. All seminars are graphically presented with overheads, and other support material. Available on-site at your facility or off-site in a conference room of a local hotel. Contact us at **800-733-4755** to arrange a no charge lubrication seminar.

Multi-Purpose Synthetic Fluids

Syn-Lube Series: Multi-Purpose, Polyalphaolefin (PAO)-Based Synthetic Fluids.





These multi-purpose polyalphaolefin (PAO) based, zinc-free fluids are formulated with state of the art additives. These fluids provide outstanding performance over extended drain intervals. Syn-Lube 22, 32, 46, 68 & 100 are recommended for many types of rotary screw and piston type air compressors, hydraulic systems, blowers, and turbine oil applications. Syn-Lube 150, 220, 320, 460, & 680 are recommended for gearboxes, bearings, chains and recirculating systems.

LUBRIPLATE PRODUCT	*PRODUCT PART NO.	ISO GRADE	SAE NO.	SAE GEAR OIL NO.	VIS. cSt @40°C/100°C	VIS. SUS 100°F/210°F	VIS. INDEX	FLASH POINT	FIRE POINT	AUTO-IGNITION TEMPERATURE	POUR POINT
SYN LUBE 22	L0968-	22	5W	-	23 / 5	129 / 44	138	420°F / 216°C	470°F / 243°C	>700°F / 371°C	-70°F / -57°C
SYN LUBE 32	L0970-	32	10	-	32 / 6	160 / 47	136	470°F / 243°C	505°F / 263°C	>700°F / 371°C	-70°F / -57°C
SYN LUBE 46	L0971-	46	20	75W	44 / 8	223 / 52	138	485°F / 250°C	550°F / 288°C	>700°F / 371°C	-65°F / -54°C
SYN LUBE 68	L0972-	68	20	80W	66 / 10	314 / 58	138	515°F / 267°C	580°F / 304°C	>700°F / 371°C	-60°F / -51°C
SYN LUBE 100	L0973-	100	30	85W	110 / 15	523 / 66	142	530°F / 277°C	590°F / 310°C	>700°F / 371°C	-55°F / -48°C
SYN LUBE 150	L0974-	150	40	80W-90	162 / 21	816 / -	154	540°F / 282°C	590°F / 310°C	-	-60°F / -51°C
SYN LUBE 220	L0975-	220	50	90	199 / 25	988 / -	154	540°F / 282°C	580°F / 304°C	-	-55°F / -48°C
SYN LUBE 320	L0976-	320	60	80W-140	310 / 35	1545 / -	157	540°F / 282°C	585°F / 307°C	-	-50°F / -46°C
SYN LUBE 460	L0977-	460	70	140	440 / 47	2191 / -	164	550°F / 288°C	585°F / 307°C	-	-50°F / -46°C
SYN LUBE 680	L0978-	680	-	-	705 / 68	3384 / -	170	555°F / 291°C	580°F / 304°C	-	-45°F / -43°C

*Syn Lube 22 through 100 is available in Pails & Drums. Syn Lube 150 through 680 is available in Jugs, Pails, 1/4 Drums & Drums. See page 15 for package part number suffix.

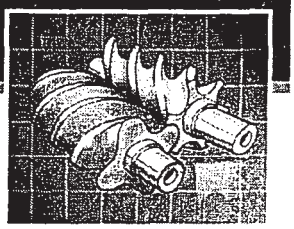
Synthetic High Temp Fluids 68 and 220: 100% Ester-Based Fluids.

These 100% ester based synthetic lubricants are recommended for use on bakery oven chains, drying oven chains, tenter frame chains, heat treating chains, paint curing oven chains and any other type of bearing/slide/gearbox applications where they are exposed to high operating temperatures and must maintain a clean lubricated surface. Available in ISO viscosity grades 68 and 220. Proven successful in applications in excess of 600°F / 316°C.

LUBRIPLATE PRODUCT	*PRODUCT PART NO.	ISO GRADE	SAE NO.	VIS. cSt @40°C/100°C	VIS. SUS @100°F/210°F	VIS. INDEX	FLASH POINT	FIRE POINT	POUR POINT
SYN High Temp 68	L0778-	68	20	74 / 11	364 / 58	109	554°F / 290°C	640°F / 338°C	-25°F / -32°C
SYN High Temp 220	L0780-	220	90	220 / 19	1112 / 102	92	525°F / 274°C	580°F / 304°C	-5°F / -21°C

*SYN High Temp 68 & 220 is available in Pails & Drums. See page 15 for more information and package part number suffix.

Synthetic Air Compressor Fluids



Syncool Series: Polyglycolester-Based Synthetic Compressor Fluids.

These polyglycolester-based, synthetic fluids are designed for rotary screw air compressors. They offer excellent heat transfer properties, low evaporation, high flash points, and outstanding oxidation resistance, eliminating varnish and sludge. Fluid change intervals are 8,000 hours under normal operating conditions.

LUBRIPLATE PRODUCT	*PRODUCT PART NO.	ISO GRADE	SAE NO.	VIS. cSt @40°C/100°C	VIS. SUS @100°F/210°F	VIS. INDEX	FLASH POINT	FIRE POINT	POUR POINT
SYNCOOL 32	L0965-	32	10	30 / 6	165 / 34	156	485°F / 252°C	550°F / 288°C	-60°F / -51°C
SYNCOOL 46	L0966-	46	20	47 / 9	232 / 55	180	470°F / 243°C	555°F / 290°C	-50°F / -46°C

*Syncool Series Fluids are available in Pails & Drums. See page 15 for more information and package part number suffix.

Synac Series: Diester-Based Synthetic Compressor Fluids

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These diester-based synthetic air compressor fluids are outstanding for applications where the fluid is subjected to high temperature and high stress conditions over extended drain intervals. Call our technical service line at 800-347-5343, for fluid and seal compatibility data and conversion procedures.

LUBRIPLATE PRODUCT	*PRODUCT PART NO.	ISO GRADE	SAE NO.	VIS. cSt @40°C/100°C	VIS. SUS @100°F/210°F	VIS. INDEX	FLASH POINT	FIRE POINT	POUR POINT
SYNAC 32	L0932-	32	10	31 / 6	155 / 46	135	450°F / 232°C	530°F / 277°C	-45°F / -43°C
SYNAC 46	L0933-	46	20	44 / 7	213 / 49	118	455°F / 235°C	535°F / 279°C	-35°F / -37°C
SYNAC 68	L0934-	68	20	64 / 8	311 / 53	98	455°F / 235°C	535°F / 279°C	-20°F / -29°C
SYNAC 100	L0935-	100	30	100 / 10	510 / 60	76	450°F / 232°C	530°F / 277°C	-15°F / -26°C
SYNAC 150	L0936-	150	40	147 / 13	754 / 71	71	540°F / 282°C	570°F / 299°C	-25°F / -32°C
SYNAC 220	L0937-	220	-	201 / 16	1003 / 83	74	545°F / 285°C	575°F / 302°C	-20°F / -29°C
SYNAC 320	L0938-	320	-	290 / 20	1496 / 99	77	475°F / 246°C	505°F / 263°C	-5°F / -20°C

*Synac Series Fluids are available in Pails & Drums. See page 15 for more information and package part number suffix.

AGMA-American Gear Manufacturers Association • ISO-International Standards Organization

932110077

Petroleum-Based Air Compressor Oils

AC Series: Petroleum-Based, Anti-Wear Fortified Compressor Oils.

These petroleum-based air compressor oils are especially formulated to reduce carbon and varnish buildup. These oils contain fluid zinc to effectively fight friction and wear thus reducing heat and foaming. Available in six ISO grades.

LUBRIPLATE PRODUCT	*PRODUCT PART NO.	ISO GRADE	SAE NO.	VIS. cSt @40°C/100°C	VIS. SUS @100°F/210°F	VIS. INDEX	FLASH POINT	FIRE POINT	POUR POINT
AC-0	L0704-	32	10	31 / 6	160 / 46	136	415°F / 213°C	440°F / 227°C	-30°F / -34°C
AC-1	L0705-	46	20	42 / 7	213 / 49	120	420°F / 216°C	450°F / 232°C	-25°F / -32°C
AC-2	L0706-	68	20	64 / 8	309 / 54	106	430°F / 221°C	465°F / 241°C	-20°F / -29°C
AC-2A	L0707-	100	30	99 / 12	518 / 66	104	445°F / 229°C	480°F / 249°C	-15°F / -26°C
AC-3	L0708-	150	40	135 / 14	690 / 75	102	460°F / 238°C	510°F / 266°C	-10°F / -23°C
AC-4	L0710-	220	40	162 / 16	840 / 83	101	470°F / 243°C	525°F / 274°C	0°F / -18°C

*AC Series Air Compressor Oils are available in Bottles, Jugs, Pails, 1/4 Drums & Drums. See page 15 for more information and package part number suffix.

Turbine Oil 32: Petroleum-Based Oil For Centrifugal Air Compressors.

This high-performance, zinc-free fluid meets the requirements of most centrifugal air compressors. Provides excellent oxidation resistance.

LUBRIPLATE PRODUCT	*PRODUCT PART NO.	ISO GRADE	SAE NO.	VIS. cSt @40°C/100°C	VIS. SUS @100°F/210°F	VIS. INDEX	FLASH POINT	FIRE POINT	POUR POINT
Turbine Oil 32	L0942-	32	10	32 / 5	152 / 44	113	390°F / 199°C	440°F / 227°C	-10°F / -23°C

*Turbine Oil 32 is available in Drums. See page 15 for more information and the package part number suffix.

Refrigeration Compressor Oils: 68-N (Naphthenic) & 68-P (Semi-Synthetic):

These highly refined lubricants are formulated for use in refrigeration compressor systems utilizing ammonia, CFC (chlorofluorocarbon) and HCFC (hydrochlorofluorocarbon) refrigerants such as R-717, R-11, R-12, R-13, R-113, R-114, R-115, R-22, R-123, R-141b, R-142b, R-500, R-501 and R-502. They are not recommended for use with HFC (hydroflurocarbon) refrigerants such as HFC-134a (R-134a).

LUBRIPLATE PRODUCT	*PRODUCT PART NO.	ISO GRADE	SAE NO.	VIS. cSt @40°C/100°C	VIS. SUS @100°F/210°F	VIS. INDEX	FLASH POINT	FIRE POINT	POUR POINT
68-N	L0842-	68	20	65 / 7	330 / 48	28	385°F / 196°C	435°F / 224°C	-35°F / -37°C
68-P	L0843-	68	20	63 / 9	315 / 42	106	468°F / 242°C	510°F / 266°C	-38°F / -39°C

*Refrigeration Compressor Oils 68N & 68P are available in Pails & Drums. See page 15 for more information and the package part number suffix.

RCO-68: NSF H-1 Registered, Food Grade, Refrigeration Compressor Fluid. See page 11 for information on this product.

Heavy-Duty Hydraulic Oils

HO Series: Petroleum-Based, Heavy-Duty Hydraulic Oils.

Formulated for superior performance, this series contains fluid zinc to effectively reduce ring and vane wear. Excellent anti-rust, anti-corrosion, anti-foam and anti-oxidation properties. High aniline points ensure long seal life with fewer leaks. They can withstand elevated temperatures and high pressures over extended drain intervals. High natural V.I. provides stable viscosities over a wide temperature range. Excellent ISO cleanliness ratings.

LUBRIPLATE PRODUCT	*PRODUCT PART NO.	ISO VIS. GRADE	AGMA NO.	SAE GEAR OIL NO.	SAE NO.	VIS. cSt @40°C/100°C	VIS. SUS @100°F/210°F	VIS. INDEX	FLASH POINT	FIRE POINT	POUR POINT
HO-0	L0760-	32	-	-	10	31 / 6	160 / 46	136	415°F / 213°C	440°F / 227°C	-30°F / -34°C
HO-1	L0761-	46	1	75	20	42 / 7	213 / 49	120	420°F / 216°C	450°F / 232°C	-25°F / -32°C
HO-2	L0762-	68	2	80	20	64 / 8	309 / 54	106	430°F / 221°C	465°F / 241°C	-20°F / -29°C
HO-2A	L0763-	100	3	80	30	99 / 12	518 / 66	104	445°F / 229°C	480°F / 249°C	-15°F / -26°C
HO-3	L0764-	150	4	85	40	135 / 14	690 / 75	102	460°F / 238°C	510°F / 266°C	-10°F / 23°C
HO-4	L0765-	150	5	90	40	162 / 16	840 / 83	101	470°F / 243°C	525°F / 274°C	0°F / -18°C
HO-5	L0766-	320	6	90	60	281 / 22	1510 / 111	96	480°F / 249°C	565°F / 296°C	10°F / -12°C

*HO Series Oils are available in Jugs, Pails, 1/4 Drums & Drums. See page 15 for more information and the package part number suffix.

FJK000062

Low Temp Hydraulic Oils: Petroleum-Based Oils For Low Temperature Applications.

LOW TEMPERATURE HYDRAULIC OILS: MV-HO Multi-Viscosity, Special Low Pour, and Minus 70 Hydraulic Oil are for low temperature applications.

LUBRIPLATE PRODUCT	*PRODUCT PART NO.	ISO VIS. GRADE	AGMA NO.	SAE GEAR OIL NO.	SAE NO.	VIS. cSt @40°C/100°C	VIS. SUS @100°F/210°F	VIS. INDEX	FLASH POINT	FIRE POINT	POUR POINT
MV-HO	L0777-	32	-	75	5W-20	35 / 8	186 / 53	199	350°F / 177°C	380°F / 193°C	-50°F / -46°C
Low Pour	L0767-	22	-	75W	5W-20	25 / 7	126 / 46	210	315°F / 157°C	350°F / 177°C	-70°F / -57°C
Minus 70	L0769-	15	-	75W	5W-20	16 / 6	84 / 45	340	200°F / 93°C	220°F / 104°C	-70°F / -57°C

*Low Temp Hydraulic Oils are available in Jugs, Pails, 1/4 Drums & Drums. See page 15 for more information and the package part number suffix.

AGMA American Gear Manufacturers Association, ISO International Standards Organization

932110078

SYNXTREME HD-2: High Performance, Synthetic, Calcium Sulfonate Complex Grease.

A high performance, multi-purpose, synthetic, calcium sulfonate complex grease. Delivers outstanding shear stability, excellent anti-wear (AW) and extreme pressure protection. Highly water resistant. Superior oxidation resistance for long lasting protection. Excellent high and low temperature performance.

LUBRIPLATE PRODUCT	*PRODUCT PART NO.	NLGI GRADE	OIL VIS. cSt / SUS @40°C / 100°F	WORKED PENETRATION	ASTM DROP POINT	APPROX. COLD TEST	AW/EP	RUST/OXID. ADDITIVES	WATER RESISTANT	APPLICATIONS / COMMENTS
SYNX HD-2	L0401-	2	100 / 500	265 / 295	700°F / 371°C	-40°F / -40°C	AW/EP	YES	YES	Heavy-duty general-purpose grease.

*SYNXTREME HD-2 is available in Cartidges, Pails, 1/4 Drums & Drums. See page 15 for package part number suffix.

SYN-1600 Series: High Performance, Polyalphaolefin (PAO)-Based Synthetic Greases.

Manufactured with 100% polyalphaolefin (PAO) base fluids and thickened with lithium-complex, for superior oxidation stability, better wear protection and significantly better operating temperature ranges. Fortified with additives to prevent rust and corrosion and to reduce grease bleed.

LUBRIPLATE PRODUCT	*PRODUCT PART NO.	NLGI GRADE	OIL VIS. cSt / SUS @40°C / 100°F	WORKED PENETRATION	ASTM DROP POINT	APPROX. COLD TEST	AW/EP	RUST/OXID. ADDITIVES	WATER RESISTANT	APPLICATIONS / COMMENTS
SYN-1600	L0300-	0	218 / 1009	355 / 385	500°F / 260°C	-50°F / -46°C	AW/EP	YES	YES	Centralized greasing systems.
SYN-1601	L0301-	1	218 / 1009	310 / 340	500°F / 260°C	-50°F / -56°C	AW/EP	YES	YES	Multi-purpose, industrial applications.
SYN-1602	L0302-	2	446 / 2066	265 / 295	500°F / 260°C	-45°F / -43°C	AW/EP	YES	YES	Multi-purpose, heavy-duty applications.

*SYN-1600 Series Greases are available in Pails, 1/4 Drums & Drums, SYN-1601 & SYN-1602 are also available in Cartridges. See page 15 for package part number suffix.

1500 Series: Lithium Complex Greases.

These multi-purpose lubricants can withstand higher temperatures than traditional lithium greases. They provide high film strength, excellent shear stability, long lubricant life, and exceptional anti-wear properties. Available in four NLGI densities for a variety of applications. No. 1552 is NLGI GC-LB certified.

LUBRIPLATE PRODUCT	*PRODUCT PART NO.	NLGI GRADE	OIL VIS. cSt / SUS @40°C / 100°F	WORKED PENETRATION	ASTM DROP POINT	APPROX. COLD TEST	AW/EP	RUST/OXID. ADDITIVES	WATER RESISTANT	APPLICATIONS / COMMENTS
1500	L0163-	00	200 / 1100	400 / 430	-	-10°F / -23°C	AW/EP	YES	YES	Leaky Gear Cases. Trailer wheel bearings.
1550	L0164-	0	200 / 1100	355 / 385	450°F / 232°C	-10°F / -23°C	AW/EP	YES	YES	Centralized greasing systems.
1551	L0165-	1	200 / 1100	310 / 340	470°F / 243°C	-5°F / -21°C	AW/EP	YES	YES	Ind./const./mining equip.
1552	L0166-	2	200 / 1100	265 / 295	>500°F / 260°C	0°F / -18°C	AW/EP	YES	YES	Ind./const./mining equip., adverse conditions.

*1500 Series Greases are available in Pails, 1/4 Drums & Drums, No. 1551 & No. 1552 are also available in Cartridges. See page 15 for package part number suffix.

No. 1200-2: Heavy-Duty, General Purpose, Lithium Type Grease.

This is an excellent, heavy-duty, general purpose, lithium type grease for both industrial and automotive applications. It provides a high film strength, great shear stability, anti-wear and extreme pressure additives.

LUBRIPLATE PRODUCT	*PRODUCT PART NO.	NLGI GRADE	OIL VIS. cSt / SUS @40°C / 100°F	WORKED PENETRATION	ASTM DROP POINT	APPROX. COLD TEST	AW/EP	RUST/OXID. ADDITIVES	WATER RESISTANT	APPLICATIONS / COMMENTS
1200-2	L0102-	2	183 / 950	265 / 295	400°F / 204°C	-25°F / -32°C	AW/EP	YES	YES	General-purpose grease.

*1200-2 is available in Cartidges, Cans, Pails, 1/4 Drums & Drums. See page 15 for package part number suffix.

1240 Series: Lithium-Polymer Type, Viscous, Non-corrosive, Extreme Pressure Greases.

Highly water resistant and tacky, they are designed for applications where the grease is subjected to heavy pressure and shock loads. This series is available in 3 NLGI densities for a wide range of applications and temperatures.

LUBRIPLATE PRODUCT	*PRODUCT PART NO.	NLGI GRADE	OIL VIS. cSt / SUS @40°C / 100°F	WORKED PENETRATION	ASTM DROP POINT	APPROX. COLD TEST	AW/EP	RUST/OXID. ADDITIVES	WATER RESISTANT	APPLICATIONS / COMMENTS
1240	L0105-	0	237 / 1250	355 / 385	400°F / 204°C	0°F / -18°C	AW/EP	YES	YES	Centralized systems, const. industrial equip.
1241	L0104-	1	237 / 1250	310 / 340	400°F / 204°C	5°F / -15°C	AW/EP	YES	YES	Centralized or hand greasing.
1242	L0106-	2	237 / 1250	265 / 295	425°F / 218°C	15°F / -9°C	AW/EP	YES	YES	Heavy-duty construction equipment.

*1240 Series Greases are available in Cartidges, Cans, Pails, 1/4 Drums & Drums. See page 15 for package part number suffix.

No. 1444: Tacky, Aluminum Complex Type Grease.

Specifically formulated for heavy-duty construction and mining equipment. Excellent for slow to moderate speed bearings and chains that are subjected to heat, steam and water. NLGI GC-LB certified.

LUBRIPLATE PRODUCT	*PRODUCT PART NO.	NLGI GRADE	OIL VIS. cSt / SUS @40°C / 100°F	WORKED PENETRATION	ASTM DROP POINT	APPROX. COLD TEST	AW/EP	RUST/OXID. ADDITIVES	WATER RESISTANT	APPLICATIONS / COMMENTS
1444	L0227-	2	626 / 3300	265 / 295	500°F / 260°C	10°F / -12°C	AW/EP	YES	YES	Heavy-duty construction, mining equip.

*No. 1444 is available in Cartridges, Pails, 1/4 Drums & Drums. See page 15 for package part number suffix.

FJK000063

No. 3000 and 3000-W: Tacky, Moly-Lithium Type, Extreme Pressure Greases.

Provides a durable, tenacious, adhesive film to protect against water, rust, and corrosive contaminants. 3000-W is for cold ambient temperatures.

LUBRIPLATE PRODUCT	*PRODUCT PART NO.	NLGI GRADE	OIL VIS. cSt / SUS @40°C / 100°F	WORKED PENETRATION	ASTM DROP POINT	APPROX. COLD TEST	AW/EP	RUST/OXID. ADDITIVES	WATER RESISTANT	APPLICATIONS / COMMENTS
3000	L0108-	2	237 / 1250	265 / 295	450°F / 232°C	0°F / -18°C	AW/EP	YES	YES	Heavy-duty, Construction/ mining equip.
3000-W	L0107-	1	60 / 315	310 / 340	375°F / 191°C	-30°F / -34°C	AW/EP	YES	YES	Heavy-duty equip. Cold weather conditions.

*3000 Series Greases are available in Cartidges, Cans, Pails, 1/4 Drums & Drums See page 15 for package part number suffix.

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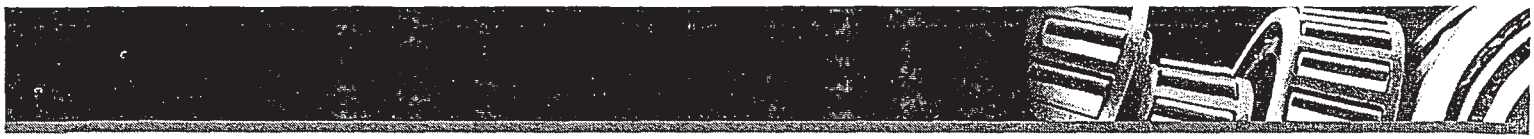


630 Series: Lithium Based Multi-purpose Greases.

These popular lithium type, greases are excellent for a wide range of lubrication demands, thus reducing the need to carry large grease inventories. All have high film strength, exceptional resistance to water, steam, and other adverse conditions. Available in 4 NLGI densities for a variety of applications.

LUBRIPLATE PRODUCT	*PRODUCT PART NO.	NLGI GRADE	OIL VIS. cSt/SUS @40°C/100°F	WORKED PENETRATION	ASTM DROP POINT	APPROX. COLD TEST	AW/EP	RUST/OXID. ADDITIVES	WATER RESISTANT	APPLICATIONS / COMMENTS
630-AAA	L0068-	0	151 / 800	355 / 385	360°F / 182°C	-10°F / -23°C	AW/EP	YES	YES	Centralized greasing systems.
630-AA	L0067-	1	135 / 750	310 / 340	380°F / 193°C	0°F / -18°C	AW/EP	YES	YES	Automatic dispensers,Centralized systems.
630-2	L0072-	2	135 / 750	265 / 295	380°F / 193°C	0°F / -18°C	AW/EP	YES	YES	Multi-purpose, general greasing, bearings.
630-A	L0066-	2.5	135 / 750	235 / 260	390°F / 199°C	10°F / -12°C	AW/EP	YES	YES	Cup type lube, water pumps

*630 Series Greases are available in Cartidges, Tubes, Cans, Pails, 1/4 Drums & Drums. See page 15 for package part number suffix.

730 Series: High Performance, Aluminum Complex Type Greases.

This series provides high load carrying ability and anti-wear protection with high resistance to water, steam, and other corrosive action. Available in 3 NLGI densities for a wide range of applications and temperatures. No. 730-2 is NLGI GC-LB certified.

LUBRIPLATE PRODUCT	*PRODUCT PART NO.	NLGI GRADE	OIL VIS. cSt/SUS @40°C/100°F	WORKED PENETRATION	ASTM DROP POINT	APPROX. COLD TEST	AW/EP	RUST/OXID. ADDITIVES	WATER RESISTANT	APPLICATIONS / COMMENTS
730-0	L0083-	0	151 / 800	355 / 385	465°F / 241°C	-10°F / -23°C	AW/EP	YES	YES	Centralized systems adverse conditions.
730-1	L0084-	1	151 / 800	310 / 340	540°F / 282°C	-10°F / -23°C	AW/EP	YES	YES	Industrial / const. equip. adverse conditions.
730-2	L0085-	2	151 / 800	265 / 295	560°F / 293°C	-10°F / -23°C	AW/EP	YES	YES	Industrial / const. equip. adverse conditions.

*730 Series Greases are available in Cans, Pails, 1/4 Drums & Drums, No. 730-2 is also available in Cartridges. See page 15 for package part number suffix.

930 Series: High Temperature, Bentone Type Greases.

Formulated for higher temperature applications. They are shear stable, multi-purpose greases for both plain and anti-friction bearings. This series works well up to 375°F / 191°C and for short intervals up to 400°F / 204°C Available in 4 NLGI densities for a wide range of applications.

LUBRIPLATE PRODUCT	*PRODUCT PART NO.	NLGI GRADE	OIL VIS. cSt/SUS @40°C/100°F	WORKED PENETRATION	ASTM DROP POINT	APPROX. COLD TEST	AW/EP	RUST/OXID. ADDITIVES	WATER RESISTANT	APPLICATIONS / COMMENTS
930-AAA	L0098-	0	167 / 900	355 / 385	NON-MELT	-10°F / -23°C	AW/EP	YES	YES	Centralized, enclosed gears, no seals.
930-AA	L0096-	1	135 / 750	310 / 340	NON-MELT	0°F / -18°C	AW/EP	YES	YES	High temperatures, automatic dispensers.
930-2	L0100-	2	135 / 750	265 / 295	NON-MELT	10°F / -12°C	AW/EP	YES	YES	Multi-purpose, high temperatures.
930-A	L0095-	2.5	135 / 750	235 / 260	NON-MELT	20°F / -7°C	AW/EP	YES	YES	High temperatures, grease cups.

*930 Series Greases are available in Cartidges, Tubes, Cans, Pails, 1/4 Drums & Drums. See page 15 for package part number suffix.

100 & 130 Series: Calcium Type Greases.

These water resistant greases are designed for plain bearings, cams, slides, and other light-duty applications where temperatures do not exceed 170°F. / 77°C.

LUBRIPLATE PRODUCT	*PRODUCT PART NO.	NLGI GRADE	OIL VIS. cSt/SUS @40°C/100°F	WORKED PENETRATION	ASTM DROP POINT	APPROX. COLD TEST	AW/EP	RUST/OXID. ADDITIVES	WATER RESISTANT	APPLICATIONS / COMMENTS
105	L0034-	0	58 / 300	355 / 385	170°F / 77°C	-30°F / -34°C	AW	YES	YES	Cams, slides, motor assembly.
107	L0036-	1	58 / 300	310 / 340	180°F / 82°C	-10°F / -23°C	AW	YES	YES	Non-staining concrete form release.
110	L0037-	2.5	58 / 300	235 / 260	190°F / 88°C	-10°F / -23°C	AW	YES	YES	Brake lubricant. Not for disc brakes.
115	L0040-	4	58 / 300	185 / 215	210°F / 99°C	10°F / -12°C	AW	YES	YES	Water pump lubricant.
130-AA	L0044-	1	135 / 750	310 / 340	190°F / 88°C	10°F / -12°C	AW/EP	YES	YES	Plain Bearings, chassis lube.
130-A	L0043-	2.5	135 / 750	235 / 260	200°F / 93°C	20°F / -7°C	AW/EP	YES	YES	Cams, guides, open gears.

*100 & 130 Series Greases are available in Tubes, Cans, Pails, 1/4 Drums & Drums. See page 15 for package part number suffix.

Multi-Purpose Greases For Special Conditions

High Temp: Multi-Purpose, High Temperature, Bentone Type Grease.

Multi-Purpose, for high temperature applications. Non-melt type, workable from 40°F / 4°C to 500°F / 260°C with frequent lube intervals.

LUBRIPLATE PRODUCT	*PRODUCT PART NO.	NLGI GRADE	OIL VIS. cSt/SUS @40°C/100°F	WORKED PENETRATION	ASTM DROP POINT	APPROX. COLD TEST	AW/EP	RUST/OXID. ADDITIVES	WATER RESISTANT	APPLICATIONS / COMMENTS
HIGH TEMP	L0161-	2	497 / 2600	265 / 295	NON-MELT	10°F / -12°C	AW	YES	YES	Multi-Purpose, high temp. applications

*HIGH TEMP is available in Cartidges, Cans, Pails, 1/4 Drums & Drums. See page 15 for package part number suffix.

FJK000064

Low Temp: Multi-Purpose, Anhydrous Calcium Based Grease For Cold Temperatures.

Excellent multi-purpose low temperature grease. For cold temperature applications down to -60°F / -51°C.

LUBRIPLATE PRODUCT	*PRODUCT PART NO.	NLGI GRADE	OIL VIS. cSt/SUS @40°C/100°F	WORKED PENETRATION	ASTM DROP POINT	APPROX. COLD TEST	AW/EP	RUST/OXID. ADDITIVES	WATER RESISTANT	APPLICATIONS / COMMENTS
LOW TEMP	L0172-	1.5	16 / 90	290 / 320	280°F / 138°C	-60°F / -51°C	AW	YES	YES	Cold temps., multi-purpose, fifth wheels.

*LOW TEMP is available in Cartidges, Tubes, Cans, Pails, 1/4 Drums & Drums. See page 15 for package part number suffix.

NLGI - National Lubricating Grease Institute ASTM - American Society of Testing & Materials AW - Anti-Wear EP - Extreme Pressure

932110080

Greases For Special Applications / Conditions

MAG-1 & MAG-00: Lithium Polymer Type Greases For Wide Range Of Temperatures.

These multi-purpose, lithium polymer greases have a wide operating temperature range for variety of applications from -60°F / -51°C up to 300°F / 149°C.

LUBRIPLATE PRODUCT	*PRODUCT PART NO.	NLGI GRADE	OIL VIS. cSt / SUS @40°C / 100°F	WORKED PENETRATION	ASTM DROP POINT	APPROX. COLD TEST	AW/EP	RUST/OXID. ADDITIVES	WATER RESISTANT	APPLICATIONS / COMMENTS
MAG-1	L0189-	1	23 / 120	310/340	375°F / 191°C	-60°F / -51°C	AW/EP	YES	YES	Cold & wide temp. range, multi-purpose.
MAG-00	L0186-	00	23 / 120	SEMI-FLUID	340°F / 171°C	-60°F / -51°C	AW/EP	YES	YES	Centralized systems, leaking gearboxes.

*MAG-1 is available in Cartidges, Cans, Pails, 1/4 Drums & Drums. MAG-00 is available in Bottles, Jugs. Pails, 1/4 Drums & Drums. See page 15 for package part number suffix.

Aero: Lithium Based, Low Temperature Grease.

For cold temperature applications down to -60°F. / -51°C. Provides low-torque start-up capability, excellent corrosion and oxidation resistance and wide compatibility with metals, plastic, and rubber. Excellent for garage door mechanisms.

LUBRIPLATE PRODUCT	*PRODUCT PART NO.	NLGI GRADE	OIL VIS. cSt / SUS @40°C / 100°F	WORKED PENETRATION	ASTM DROP POINT	APPROX. COLD TEST	AW/EP	RUST/OXID. ADDITIVES	WATER RESISTANT	APPLICATIONS / COMMENTS
AERO	L0113-	1	19 / 100	310 / 340	350°F / 177°C	-60°F / -51°C	AW	YES	YES	Cold temps., trailer landing gears, garages.

*AERO is available in Tubes, Cans, Pails, 1/4 Drums, & Drums. See page 15 for package part number suffix.

No. 5555: Anhydrous Calcium, Semi-Fluid Type Lubricant.

This semi-fluid type lubricant is made for automatic lubricating systems operating in cold environments.

LUBRIPLATE PRODUCT	*PRODUCT PART NO.	NLGI GRADE	OIL VIS. cSt / SUS @40°C / 100°F	WORKED PENETRATION	ASTM DROP POINT	APPROX. COLD TEST	AW/EP	RUST/OXID. ADDITIVES	WATER RESISTANT	APPLICATIONS / COMMENTS
5555	L0109-	000	16 / 90	SEMI-FLUID	315°F / 157°C	-60°F / -51°C	AW	YES	YES	Automatic lube systems, light oil, cold temps.

*No. 5555 is available in Bottles, Jugs, Pails. 1/4 Drums, & Drums. See page 15 for package part number suffix.

EMB: Lithium Polymer Type, High Speed Electric Motor Bearing Grease.

Developed specifically for the lubrication of electric motor bearings, fans and other high speed grease type ball and roller bearings.

LUBRIPLATE PRODUCT	*PRODUCT PART NO.	NLGI GRADE	OIL VIS. cSt / SUS @40°C / 100°F	WORKED PENETRATION	ASTM DROP POINT	APPROX. COLD TEST	AW/EP	RUST/OXID. ADDITIVES	WATER RESISTANT	APPLICATIONS / COMMENTS
EMB	L0148-	2	100 / 500	265 / 295	390°F / 199°C	-20°F / -29°C	AW/EP	YES	YES	Electric motor bearings, fans, air handlers.

*EMB is available in Cartridges. Cans, Pails, 1/4 Drums & Drums. See page 15 for package part number suffix.

Poly HP-2: Polyurea-Thickened Type Grease.

Formulated with the highest quality paraffinic base oils available. Excellent for high-speed electric motor bearings and other industrial applications.

LUBRIPLATE PRODUCT	*PRODUCT PART NO.	NLGI GRADE	OIL VIS. cSt / SUS @40°C / 100°F	WORKED PENETRATION	ASTM DROP POINT	APPROX. COLD TEST	AW/EP	RUST/OXID. ADDITIVES	WATER RESISTANT	APPLICATIONS / COMMENTS
Poly HP-2	L0191-	2	128 / 650	265 / 295	500°F / 260°C	-	AW	YES	YES	Electric motor bearings.

*Poly HP-2 is available in Cartridges, Pails & 1/4 Drums. See page 15 for package part number suffix.

Greases For Open Gearing

Gear Shield Series: Lithium Based, Open Gear Grease.

Made for all types of open gears. Available in 4 formulas for a variety of conditions and temperatures. Gear Shield Extra Heavy is for adverse conditions.

LUBRIPLATE PRODUCT	*PRODUCT PART NO.	NLGI GRADE	OIL VIS. cSt / SUS @40°C / 100°F	WORKED PENETRATION	ASTM DROP POINT	APPROX. COLD TEST	AW/EP	RUST/OXID. ADDITIVES	WATER RESISTANT	APPLICATIONS / COMMENTS
Gear Shield	L0150-	1	237 / 1250	310 / 340	350°F / 177°C	-20°F / -29°C	AW	YES	YES	Open gears, normal conditions.
G.S. Heavy	L0151-	2	432 / 2000	265 / 295	365°F / 185°C	10°F / -12°C	AW	YES	YES	Open gears, normal conditions.
G.S. Low Temp	L0173-	2	58 / 300	265 / 295	400°F / 204°C	-20°F / -29°C	AW	YES	YES	Open gears, slides, fifth wheels, low temps.
G.S. X-Heavy	L0152-	2.5	432 / 2000	235 / 260	370°F / 188°C	20°F / -7°C	AW	YES	YES	Open gears, adverse conditions.

*Gear Shield Series Greases are available in Cans, Pails, 1/4 Drums & Drums. Gear Shield X-Heavy also available in Aerosol and Caulk Type Cartridges. See page 15 for package part number suffix.

FJK000065

No. 176: Inorganic / Organic, Open Gear Grease for Centralized Systems. No Solvents.

This adhesive, semi-fluid grease is for all types of open gears lubricated by centralized systems. Provides good pumpability without the use of harmful solvents.

LUBRIPLATE PRODUCT	*PRODUCT PART NO.	NLGI GRADE	OIL VIS. cSt / SUS @40°C / 100°F	WORKED PENETRATION	ASTM DROP POINT	APPROX. COLD TEST	AW/EP	RUST/OXID. ADDITIVES	WATER RESISTANT	APPLICATIONS / COMMENTS
No. 176	L0054-	00	313 / 1650	400 / 430	NON-MELT	5°F / -15°C	AW/EP	YES	YES	Open gears lubricated centralized systems.

*No. 176 is available in Pails, 1/4 Drums & Drums. See page 15 for package part number suffix.

NLGI - National Lubricating Grease Institute. ASTM - American Society of Testing & Materials. AW - Anti-Wear EP - Extreme Pressure

932110081

Petroleum Based, Gear, Bearing & Recirculating Oils

SPO Series: Extra-Duty Anti-Wear, Rust & Oxidation Inhibited (R&O) Gear and Bearing Oils.

SPO series of petroleum based oils is specifically designed for industrial applications such as gear cases, bearings, chains, machine ways, and general oiling. These tacky lubricants will provide anti-wear lubrication for high sliding action in worm gears. They are also excellent for bevel, helical, and spur gears. SPO Lubes can be used with silver alloy, copper, and copper alloy bearings. Excellent for use in high moisture and high temperature applications. Provides performance comparable to synthetic lubricants.

SPO-MG is a semi-synthetic lubricant formulated with a unique blend of synthetic hydrocarbon and mineral oil base stocks. This base stock combination results in exceptional thermal and oxidation stability, extended drain intervals and improved perfomance. Meets the viscosity requirements of SAE 80W and SAE 140 gear oils.

LUBRIPLATE PRODUCT	*PRODUCT PART NO.	ISO VIS. GRADE	AGMA NO.	SAE GEAR OIL NO.	SAE NO.	VIS. cSt @40°C/100°C	VIS. SUS @100°F/210°F	VIS. INDEX	FLASH POINT	FIRE POINT	POUR POINT
SPO-222	L0242-	68	2	80W	20W	63 / 9	317 / 55	109	415°F / 213°C	465°F / 241°C	-30°F / -34°C
SPO-233	L0243-	100	3	80W	30	91 / 11	464 / 63	103	450°F / 232°C	500°F / 260°C	-35°F / -37°C
SPO-244	L0244-	150	4	90	40	135 / 14	685 / 75	102	460°F / 238°C	525°F / 274°C	-25°F / -32°C
SPO-255	L0245-	220	5	90	50	200 / 19	1044 / 95	103	465°F / 241°C	560°F / 293°C	-10°F / -23°C
SPO-266	L0246-	320	6	90	60	280 / 23	1476 / 115	102	470°F / 243°C	570°F / 299°C	10°F / -12°C
SPO-277	L0247-	460	7	140	70	432 / 30	2260 / 148	101	475°F / 246°C	580°F / 304°C	15°F / -9°C
SPO-288	L0248-	680	8	250	-	628 / 38	3314 / 184	98	425°F / 218°C	525°F / 274°C	10°F / -12°C
SPO-299	L0249-	1000	8A	250	-	950 / 50	5100 / 245	99	450°F / 232°C	505°F / 263°C	10°F / -12°C
SPO-MG	L0252-	220	6	80W-140	60	237 / 25	1223 / 123	120	425°F / 218°C	465°F / 241°C	-25°F / -32°C

*SPO Series Oils are available in Bottles, Jugs, Pails, 1/4 Drums & Drums. See page 15 for package part number suffix.

APG Series: Heavy-Duty, Extreme Pressure (EP) Petroleum-Based Gear Oils.

These heavy-duty, extreme pressure type oils were developed to meet gear oil needs of most automotive, truck, heavy equipment and industrial gear boxes requiring an extreme pressure type oil. Meets military specification MIL-PRF-2105E and MIL-L-2105D and API categories GL-3, GL-4, GL-5, MT-1.

LUBRIPLATE PRODUCT	*PRODUCT PART NO.	ISO VIS. GRADE	AGMA NO.	SAE GEAR OIL NO.	SAE NO.	VIS. cSt @40°C/100°C	VIS. SUS @100°F/210°F	VIS. INDEX	FLASH POINT	FIRE POINT	POUR POINT
APG-75	L0116-	32	-	75W	10W	31 / 6	152 / 44	113	350°F / 177°C	365°F / 185°C	-55°F / -48°C
APG-80	L0117-	68	2 EP	80W	20	67 / 9	356 / 58	113	380°F / 193°C	440°F / 227°C	-35°F / -37°C
APG 80W-90	L0030-	100	3 EP	80W-90	40	124 / 15	650 / 84	121	380°F / 193°C	410°F / 210°C	-35°F / -37°C
APG-90	L0118-	150	5 EP	90	50	156 / 16	816 / 86	112	395°F / 202°C	440°F / 227°C	-20°F / -29°C
APG 80W-140	L0124-	320	6 EP	80W-140	60	248 / 25	1300 / 125	120	380°F / 193°C	410°F / 210°C	-25°F / -32°C
APG-140	L0119-	460	7 EP	85W-140	70	410 / 31	2220 / 152	107	405°F / 207°C	440°F / 227°C	0°F / -18°C
APG-250	L0120-	680	8 EP	250	-	701 / 42	3700 / 203	100	390°F / 199°C	450°F / 232°C	5°F / -15°C

*APG Series Oils are available in Bottles, Jugs, Pails, 1/4 Drums & Drums, APG 90 is also available in Tubes. See page 15 for package part number suffix.

CP-8A: Compounded (CP) Petroleum-Based Gear Oil.

This non-EP oil is manufactured with acidless tallow as required to meet AGMA specification 8A Comp. It is recommended for use in cone drives and double-enveloping worm gear drives.

LUBRIPLATE PRODUCT	*PRODUCT PART NO.	ISO VIS. GRADE	AGMA NO.	SAE GEAR OIL NO.	SAE NO.	VIS. cSt @40°C/100°C	VIS. SUS @100°F/210°F	VIS. INDEX	FLASH POINT	FIRE POINT	POUR POINT
CP-8A	L0141-	1000	8A COMP	250	-	950 / 47	4950 / 230	95	550°F / 288°C	600°F / 316°C	35°F / 2°C

*CP-8A is available in Pails, 1/4 Drums & Drums. See page 15 for package part number suffix.

Machine Tool Oils: Petroleum-Based Machine Oils.

FJK000066

Compounded to impart a unique load carrying film, exceptional lubricity, and anti-friction properties not found in conventional oils of the same viscosity.

LUBRIPLATE PRODUCT	*PRODUCT PART NO.	ISO VIS. GRADE	AGMA NO.	SAE GEAR OIL NO.	SAE NO.	VIS. cSt @40°C/100°C	VIS. SUS @100°F/210°F	VIS. INDEX	FLASH POINT	FIRE POINT	POUR POINT
NO. 0	L0000-	7-10	-	-	5W	9 / -	56 / 34	-	275°F / 135°C	295°F / 146°C	-60°F / -51°C
NO. 1	L0002-	22	-	-	10W	22 / -	115 / 38	-	345°F / 174°C	360°F / 182°C	-50°F / -46°C
NO.2	L0003-	46	1	75W	20	45 / -	228 / 45	96	365°F / 185°C	385°F / 196°C	-30°F / -34°C
NO. 3V	L0009-	68	2	80W	20	62 / -	326 / 48	98	380°F / 193°C	395°F / 202°C	-25°F / -32°C
NO. 3	L0005-	100	3	80W	30	92 / -	490 / 58	98	390°F / 199°C	410°F / 210°C	-25°F / -32°C
NO. 4	L0011-	150	4	90	40	162 / 13	854 / 72	98	420°F / 216°C	450°F / 232°C	-20°F / -29°C
NO. 8	L0014-	460	7	140	70	432 / 28	2300 / 142	90	435°F / 224°C	515°F / 268°C	0°F / -18°C

*Machine Tool Oils are available in Bottles, Jugs, Pails, 1/4 Drums & Drums. See page 15 for package part number suffix.

AGMA-American Gear Manufacturers Association. ISO-International Standards Organization.

932110082

Specialty Greases

X-357: A special extreme pressure moly-fortified lubricant that penetrates and adheres, water resistant. Use on pintle hooks, slide axles, open gears, fifth wheels. Product Part No. L0149-. See page 15 for packaging information.

NO. 777: This special grease lubricant has been approved by Ford Motor Co. specification ESF-M1C-26-A for use as a starter motor shaft lubricant. Also approved for starter drives on Evinrude / Johnson outboards. Product Part No. L0081-. See page 15 for packaging information.

NO. 105 Motor Assembly Grease: A smooth, light bodied, water-repellent grease that is applied to engine bearings, cylinder walls and other moving internal engine parts. Provides lubrication and protects parts from scuffing and scoring during initial start up before the motor oil circulates. Prevents rust on newly machined engine parts. Will not clog filters or oil lines. Product Part No. L0034-. See page 15 for packaging information.

NO. 107 Concrete Form Release: This soft grease can easily be sprayed on form contact surfaces providing immediate release once the concrete is set. White in color, it will not stain the casting. Product Part No. L0036-. See page 15 for packaging information.

DS-ES Electric Switch Lubricant: Developed for the lubrication of electrical switch contacts. Used extensively in the automotive industry for switches, sockets, and wiring harness connectors. Excellent oxidation resistance and compatibility with metal, plastic and rubber. Product Part No. L0137-. See page 15 for packaging information.

GR-132 Portable Tool Grease: A light viscosity oil combined with a lithium combination thickener makes GR-132 ideal for applications where fluid friction must be kept to a minimum. Ideal for the small gear cases in portable tools. Product Part No. L0158-. See page 15 for packaging information.

Brick Grease: This NLGI No. 6 grade sodium-type grease was developed for the lubrication of open slot and open well type bearings where the brick grease rides directly on the bearing shaft. Package / case 4/10 lb. Bricks 43 lbs. net. Part No. L0131-038.

Lithium Brick Grease: This NLGI No. 6 grade lithium grease is recommended for open slot and open well type bearings where the brick grease rides directly on the bearing shaft. Package / case 4/10 lb. Bricks, Part No. L0132-038.

5 JK000067

Specialty Oils & Fluids

Air Tool Lubricant: Designed for both rotary and reciprocating types of air tools such as hammers, impact wrenches, air motors, grinders, reamers and drills. Proven excellent air line lubricant, used effectively on lift cylinders of can fillers in breweries, bottling plants. Removes gumming and sludge. Product Part No. L0713-.

Jack Oil: A heavy-duty, high pressure hydraulic oil, anti-wear and anti-corrosion additives. Product Part No. L0768-.

Bar & Chain Oil: Formulated with special anti-wear additives to provide maximum protection to the bar and chain of all makes of chain saws. SAE grade 20. Good adhesion properties provide excellent resistance to "throw off" action. Part No. L0720-.

Chain & Cable Fluid / Chain & Cable Heavy: Superior penetrating oils that clean and lubricate without gumming. Ideal for wire rope, chains, cables, hinges, springs, slides and other moving metal parts. Protects bright work. Excellent oils to loosen rusty nuts and bolts. Ideal for tapping and drilling. Part Nos. L0135- and L0136-. See page 15 for packaging information and package part number suffix.

Super Chain Oil: A heavy polymer, tenacious, high flash point oil containing micro-fine graphite. Excellent for bakery ovens, drying ovens where temperatures do not exceed 450°F. / 232°C. Works well on floor chain conveyors, car wash lines, assembly lines. Flash point 520°F. / 271°C. Fire point 600°F. / 316°C. Product Part No. L0857-. See page 15 for packaging information and package part number suffix.

Synthetic Worm Gear Lubricant: This high performance, ISO 460 grade, synthetic gear lubricant is recommended for all types of worm gear reducers. Product Part No. L0981-. See page 15 for packaging information and package part number suffix.

Syn Flush: This premium quality, pure synthetic fluid is designed to clean and dissolve varnish deposits in air compressors while the compressor is in operation. It is compatible with petroleum/mineral oils as well as all Lubriplate Synthetic Compressor Fluids. Recommended for flushing compressors converting from petroleum base oils to synthetic fluids. SYNFLUSH can be used in its pure form in rotary screw air compressors up to 500 hours. Part No. L0962-.

Heat Transfer Oils: These high flash and fire point oils are designed for exceptional heat transfer properties. For use on oil type heat exchangers in asphalt plants, roofer tar kettles, curing machines. Flash point 525°F. / 274°C. Fire Point 600°F. / 316°C. Available in ISO viscosity grades 32, Part No. L0757-, 68, Part No. L0751-, and 150 Part No. L0750-. Available in Pails & Drums. See page 15 for package part number suffix.

Rock Drill Oils 10R, 30R: For all types of rock drills, air hammers and other pneumatic tools used in the construction and mining industries. Available in SAE 10W, Part No. L0847-, and 30, Part No. L0848-, with the lighter weight oil for cold weather conditions. Use SPO-255 for SAE 50 rock drill oil.

Mist Oil: Designed to meet optimum requirements of mist applicators or fogging oil systems. The use of special oils and additives assures proper misting qualities. Mist oil provides superior wear protection against heavy loads. For machine tools, grinders, conveyor systems. SAE 30. Part No. L0177-.

Vacuum Pump Oil & Vacuum Pump Oil Light: High performance, non-detergent mineral oils recommended for most rotary vane and rotary lobe vacuum pumps. They are designed to alleviate the sludge, carbon deposits and contamination problems commonly found in industrial vacuum pumps. Lubriplate Vacuum Pump Oil Light is recommended for vacuum pumps typically associated with delicate instrumentation. Vacuum Pump Oil is SAE-30 / ISO-100 grade. Part No. L0945-. Vacuum Pump Oil Light is SAE-10 / ISO-32 grade. Part NO. L0944-.

HO Special Hydraulic Oils: HO-32, HO-46* and HO-68 meet the requirements and are approved by Abex-Denison HF-0 and HF-2, they are also accepted by Vickers specification M-2950-S. *Lubriplate HO-46 is approved by Cincinnati-Milacron under Specification P-70. Product Part Nos. HO-32, L0770-, HO-46, L0771-, HO-68, L0772-. See page 15 for packaging information.

932110083

Synthetic Food Machinery Grade Fluids / Class H-1*

Certified Kosher Pareve · NSF H-1 REGISTERED

SFGO Ultra Series: Polyalphaolefin (PAO)-Based, High-Performance Fluids.

Formulated with 100% PAO synthetic base fluids for a variety of demanding applications. They are outstanding lubricants for use under severe conditions subject to extremely high or low temperatures. They exhibit outstanding oxidation resistance and thermal stability capabilities. Recommended for air compressors, hydraulic systems, bearings, gearboxes, pumps and chains which experience very demanding conditions. Meets FDA 21 CFR 178.3570 and FDA 21 CFR 172.882 for applications where incidental contact with the edible product may occur. SFGO Ultra 220 and 460 pass 12 stages of the FZG Test.

LUBRIPLATE PRODUCT	*PRODUCT PART NO.	ISO VIS. GRADE	AGMA NO.	SAE GEAR OIL NO.	SAE NO.	VIS. cSt @40°C/100°C	VIS. SUS @100°F/210°F	VIS. INDEX	FLASH POINT	FIRE POINT	POUR POINT
SFGO Ultra-7	L0912-	7	-	-	5W	7 / 2	51 / 34	137	320°F / 160°C	350°F / 176°C	-75°F / -60°C
SFGO Ultra-15	L0930-	15	-	-	5W	16 / 4	89 / 40	129	380°F / 93°C	410°F / 210°C	-70°F / -57°C
SFGO Ultra-22	L0931-	22	-	-	5W	20 / 4	106 / 41	128	405°F / 207°C	430°F / 221°C	-65°F / -54°C
SFGO Ultra-32	L0915-	32	-	75	10	31 / 6	160 / 46	130	465°F / 241°C	515°F / 268°C	-70°F / -57°C
SFGO Ultra-46	L0916-	46	1	80	20	45 / 8	220 / 52	134	480°F / 249°C	520°F / 271°C	-65°F / -54°C
SFGO Ultra-68	L0917-	68	2	80	30	67 / 10	325 / 59	125	495°F / 257°C	545°F / 285°C	-60°F / -51°C
SFGO Ultra-100	L0983-	100	3	85	40	105 / 16	556 / 77	158	515°F / 268°C	560°F / 293°C	-65°F / -54°C
SFGO Ultra-150	L0984-	150	4	90	50	151 / 20	762 / 97	156	510°F / 265°C	555°F / 291°C	-60°F / -51°C
SFGO Ultra-220	L0985-	220	5	90	50	216 / 26	1088 / 128	155	510°F / 265°C	555°F / 291°C	-50°F / -46°C
SFGO Ultra-320	L0986-	320	6	140	60	312 / 34	1557 / 161	155	505°F / 263°C	550°F / 288°C	-50°F / -46°C
SFGO Ultra-460	L0987-	460	7	140	-	446 / 45	2143 / 211	156	505°F / 263°C	550°F / 288°C	-45°F / -43°C
SFGO Ultra-680	L0988-	680	8	250	-	623 / 57	3289 / 275	157	500°F / 260°C	545°F / 285°C	-45°F / -43°C
SFGO Ultra-1000	L0989-	1000	-	-	-	950 / 77	4900 / 372	157	500°F / 260°C	545°F / 285°C	-35°F / -37°C

*SFGO Ultra Fluids are available in Jugs, Pails, 1/4 Drums & Drums. See page 15 for package part number suffix.

SFGO Series: Polyalphaolefin (PAO)-Based, Multi-Purpose Fluids.

The original SFGO fluids, ISO viscosity grades 100 through 1500 are still available for less stressful applications which require only a PAO/Polymer combination synthetic fluid.

SYN-H1-220: Polyalkylene Glycol Based Synthetic Chain, Bearing and Gearbox Lubricant.

Specifically designed for use where elevated temperatures exist and the need for a food grade lubricant is required. For chain applications where air temperatures exceed 400°F./ 204°C and up to 600°F./ 316°C. when not exposed to open flame or ignition source. Passes 12 stages of FZG test.

LUBRIPLATE PRODUCT	*PRODUCT PART NO.	ISO VIS. GRADE	AGMA NO.	SAE GEAR OIL NO.	SAE NO.	VIS. cSt @40°C/100°C	VIS. SUS @100°F/210°F	VIS. INDEX	FLASH POINT	FIRE POINT	POUR POINT
SYN-H1-220	L0779-	220	5	90	-	285 / 41	1310 / 188	206	540°F / 282°C	550°F / 288°C	-20°F / -29°C

*SYN-H1-220 Fluid is available in Pails & Drums. See page 15 for package part number suffix.

RCO-68: Polyalphaolefin (PAO)-Based, Food Machinery Grade, Refrigeration Compressor Fluid.

Formulated for use in refrigeration compressor systems where a NSF H-1 Registered, food machinery grade lubricant is required.

LUBRIPLATE PRODUCT	*PRODUCT PART NO.	ISO VIS. GRADE	AGMA NO.	SAE GEAR OIL NO.	SAE NO.	VIS. cSt @40°C/100°C	VIS. SUS @100°F/210°F	VIS. INDEX	FLASH POINT	FIRE POINT	POUR POINT
RCO-68	L0818-	68	2	80	30	67 / 10	325 / 59	125	495°F / 257°C	545°F / 285°C	-60°F / -51°C

*RCO-68 Fluid is available in Pails & Drums. See page 15 for package part number suffix.

Synthetic Food Machinery Grade Greases / Class H-1*

Certified Kosher Pareve · NSF H-1 REGISTERED

SYNXTREME FG-2: Synthetic, Calcium Sulfonate Complex, Food Machinery Grade Grease.

A NSF H-1 registered, high performance, multi-purpose, synthetic, food machinery grade grease. Provides long lasting, anti-wear and extreme pressure protection. It is highly resistant to water and caustic solution wash downs. Provides excellent high and low temperature performance.

LUBRIPLATE PRODUCT	*PRODUCT PART NO.	NLGI DENSITY	OIL VIS. cSt / SUS @40°C / 100°F	WORKED PENETRATION	ASTM DROP POINT	APPROX COLD TEST	AW / EP	RUST & OXID. ADDITIVES	WATER RESISTANT
SYNXTREME FG-2	L0305-	2	100 / 500	265 / 295	700°F / 371°C	-40°F / -40°C	AW/EP	YES	YES

*SYNXTREME FG-2 is available in Cartidges, Pails, 1/4 Drums & Drums. See page 15 for package part number suffix.

F.IK000068

SFL Series: Multi-Purpose, Synthetic, Aluminum Complex, Food Machinery Grade Greases.

This series provides an exceptionally wide operating temperature range, high shear stability, excellent water resistance, and load carrying properties. For use in freezers and other cold temperature applications or in areas subject to both cold and elevated temperatures. Available in 4 densities.

LUBRIPLATE PRODUCT	*PRODUCT PART NO.	NLGI DENSITY	OIL VIS. cSt / SUS @40°C / 100°F	WORKED PENETRATION	ASTM DROP POINT	APPROX COLD TEST	AW / EP	RUST & OXID. ADDITIVES	WATER RESISTANT
SFL-00	L0195-	00	39 / 200	400 / 430	400°F / 204°C	-60°F / -51°C	AW	YES	YES
SFL-0	L0196-	0	39 / 200	355 / 385	425°F / 218°C	-60°F / -51°C	AW	YES	YES
SFL-1	L0197-	1	39 / 200	310 / 340	450°F / 232°C	-60°F / -51°C	AW	YES	YES
SFL-2	L0198-	2	219 / 1070	265 / 295	500°F / 260°C	-25°F / -32°C	AW	YES	YES

*SFL Series Greases are available in Cartidges, Pails, 1/4 Drums & Drums. See page 15 for package part number suffix.

*Lubriplate H-1 Class Lubricants are manufactured with ingredients that comply with FDA 21 CFR 178.3570 for lubricants with incidental contact with the edible product. NSF H-1 Registered.

932110084

USP Mineral Oil-Based Food Machinery Grade Oils / Class H-1*

Certified Kosher Pareve

NSF H-1 REGISTERED

FMO-AW Series: Multi-Purpose, Food Grade USP White Mineral Oils.

For use where a Class H-1 oil is required. Manufactured in nine ISO grades for a variety of applications. Anti-wear fortified. NOTE: FMO-350AW is also available in a red and orange color which helps in leak detection. The original FMO Series products without the anti-wear additive system are still available.

LUBRIPLATE PRODUCT	*PRODUCT PART NO.	ISO VIS. GRADE	AGMA NO.	SAE GEAR OIL NO.	SAE NO.	VIS. cSt @40°C/100°C	VIS. SUS @100°F/210°F	VIS. INDEX	FLASH POINT	FIRE POINT	POUR POINT
FMO-85 AW	L0880-	15-22	-	-	5W	19 / 4	103 / 40	112	335°F / 168°C	365°F / 185°C	-45°F / -43°C
FMO-150 AW	L0879-	32	-	-	10W	32 / 5	162 / 43	71	370°F / 188°C	415°F / 213°C	-30°F / -34°C
FMO-200 AW	L0881-	46	1	75	10	41 / 6	208 / 48	111	375°F / 191°C	405°F / 207°C	-25°F / -32°C
FMO-350 AW	L0882-	68	2	80	20	68 / 8	348 / 56	103	435°F / 224°C	490°F / 254°C	-10°F / -23°C
FMO-500 AW	L0883-	100	3	80	30	99 / 11	523 / 66	102	495°F / 257°C	545°F / 285°C	0°F / -18°C
FMO-900 AW	L0884-	150	4	90	40	160 / 15	856 / 83	99	450°F / 232°C	540°F / 282°C	0°F / -18°C
FMO-1100 AW	L0886-	220	5	90	50	210 / 19	1126 / 97	100	440°F / 227°C	510°F / 266°C	5°F / -15°C
FMO-1700 AW	L0887-	320	6	140	60	324 / 25	1730 / 120	95	430°F / 221°C	505°F / 263°C	5°F / -15°C
FMO-2400 AW	L0885-	460	7	140	70	456 / 30	2350 / 142	93	425°F / 218°C	505°F / 263°C	10°F / -12°C
FMO-3800 AW	L0888-	680	8	250	-	690 / 40	3864 / 198	96	420°F / 216°C	485°F / 252°C	15°F / -9°C

*FMO Series Oils are available in Bottles, Jugs, Pails, 1/4 Drums & Drums. See page 15 for more information and package part number suffix.

Food Grade Cooker Oil: This zinc free oil is designed for use in the Manzel Lubricators and Micro-valve systems found on most cookers and sterilizers used in canning operations and other similar applications involving high temperature and high humidity conditions. Unique additives provide high load-carrying ability and corrosion protection.

STO-FG Oil: Special, non-corrosive oil for lubricating stirrups on bottle filling machines. Class H-1.

PM 500 White Oil: This oil contains emulsifying agents that wet the lubricated surfaces and provides an oily film for the moving parts. Used very successfully on pear machines.

FP-150 & FP-150L: These clear, tacky, adhesive Class H-1 oils resist heavy water washdown and steam. For helical gearboxes, chains, linkages, cams, and slides and wherever a dripless, adhesive fluid lubricant is desired.

Pure Flush: This lubricating, flushing and cleansing oil is to be used along with the existing lubricant to clean equipment without dismantling. It can be used to clean and flush bearings, gear cases, hydraulic systems, centralized lubricating systems, air lines, chains and air tools. It is fully compatible with petroleum based lubricants and most petroleum compatible synthetics. Class H-1.

LUBRIPLATE PRODUCT	*PRODUCT PART NO.	ISO VIS. GRADE	AGMA NO.	SAE GEAR OIL NO.	SAE NO.	VIS. cSt @40°C/100°C	VIS. SUS @100°F/210°F	VIS. INDEX	FLASH POINT	FIRE POINT	POUR POINT
FG Cooker Oil	L0701-	150	4	90	40	155 / 16	795 / 82	104	475°F / 246°C	525°F / 274°C	5°F / -15°C
STO-FG	L0863-	68	2	80	20	67 / 13	340 / 70	105	425°F / 218°C	485°F / 252°C	-15°F / -26°C
PM-500	L0192-	100	3	80	30	101 / 11	560 / 64	86	420°F / 216°C	485°F / 252°C	-5°F / -21°C
FP-150	L0735-	460	7	140	70	367 / 25	1950 / 127	93	395°F / 202°C	455°F / 235°C	0°F / -18°C
FP-150L	L0736-	100	3	80	30	103 / 12	510 / 67	108	410°F / 210°C	450°F / 232°C	-5°F / -21°C
Pure Flush	L0816-	-	-	-	-	7 / 2	50 / 32	-	210°F / 99°C	220°F / 104°C	-35°F / -37°C

*See page 15 for the package part number suffix which identifies the available packaging. Not all products are available in every package size.

Food Machinery Oils / Class H-2**

No. 72-C Oil: Class H-2** oil, for use as a steam peeler oil as it provides an oiliness film which prevents chatter. FJK000069

No. 78 Cooker Oil: Class H-2** oil, for use in Manzel lubricators for A-B cookers and sterilizers, FMC cookers. Corrosion and oxidation resistant.

STO-4 Oil: Special, non-corrosive oil for lubricating stirrups on bottle filling machines. Class H-2.**

AS-148 Oil: An ashless oil for bearings, gears and cams where high temps are encountered. For Manzel lubricators and Angelus Seamers. Class H-2.**

LUBRIPLATE PRODUCT	*PRODUCT PART NO.	ISO VIS. GRADE	AGMA NO.	SAE GEAR OIL NO.	SAE NO.	VIS. cSt @40°C/100°C	VIS. SUS @100°F/210°F	VIS. INDEX	FLASH POINT	FIRE POINT	POUR POINT
72-C	L0703-	150	4	90	40	151 / 13	750 / 75	110	490°F / 254°C	520°F / 271°C	15°F / -9°C
78	L0700-	150	4	90	40	164 / 15	850 / 82	99	475°F / 246°C	565°F / 296°C	-20°F / -29°C
STO-4	L0860-	46	1	75	20	45 / -	255 / 47	70	320°F / 160°C	370°F / 188°C	-30°F / -34°C
AS-148	L0715-	220	5	90	50	200 / 18	1041 / 91	97	470°F / 243°C	525°F / 274°C	10°F / -12°C

*See page 15 for the package part number suffix which identifies the available packaging. Not all products are available in every package size.

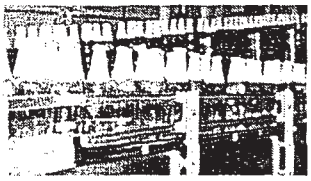
**H-2 Class lubricants may be used as a lubricant or anti-rust agent on equipment in which there is no possibility of the lubricated part contacting the edible product.

USP Mineral Oil-Based Food Grade Greases / Class H-1*

Certified Kosher Pareve

NSF H-1 REGISTERED

FGL Series: High Performance, Multi-Purpose Food Grade Greases.



Designed to meet the demands of food and beverage industry plant engineers who want Class H-1 greases to totally replace H-2 greases. Fortified with anti-wear, anti-rust and anti-corrosion additives which combine to yield excellent shear stability, load carrying capability and resistance to water and caustic wash down. Available in four NLGI densities for a variety of applications. FGL-CC is for centralized/automatic lubrication systems on high speed can closing equipment.

LUBRIPLATE PRODUCT	*PRODUCT PART NO.	GREASE TYPE	NLGI DENSITY	OIL VIS. cSt/SUS @40°C/100°F	WORKED PENETRATION	ASTM DROP POINT	APPROX COLD TEST	AW / EP	RUST & OXID. ADDITIVES	WATER RESISTANT
FGL-00	L0226-	ALUMINUM COMPLEX	00	120 / 550	400 / 430	410°F / 210°C	-5°F / -21°C	AW	YES	YES
FGL-CC	L0229-	ALUMINIUM COMPLEX	0/00	120 / 550	370 / 410	450°F / 232°C	0°F / -18°C	AW	YES	YES
FGL-0	L0230-	ALUMINUM COMPLEX	0	120 / 550	355 / 385	435°F / 224°C	0°F / -18°C	AW	YES	YES
FGL-1	L0231-	ALUMINUM COMPLEX	1	120 / 550	310 / 340	460°F / 238°C	0°F / -18°C	AW	YES	YES
FGL-2	L0232-	ALUMINUM COMPLEX	2	160 / 850	265 / 295	515°F / 268°C	10°F / -12°C	AW	YES	YES

*FGL Series greases are available in Cans, Pails, 1/4 Drums & Drums, FGL-1 & FGL-2 are available in Cartridges. See page 15 for more information and package part number suffix.

FML Series: Multi-Purpose, Food Grade Greases.

These white, multi-purpose greases have been leaders in the food processing industry for years.

LUBRIPLATE PRODUCT	*PRODUCT PART NO.	GREASE TYPE	NLGI DENSITY	OIL VIS. cSt/SUS @40°C/100°F	WORKED PENETRATION	ASTM DROP POINT	APPROX COLD TEST	AW / EP	RUST & OXID. ADDITIVES	WATER RESISTANT
FML-0	L0143-	ANHYDROUS CALCIUM	0	144 / 750	355 / 385	280°F / 138°C	0°F / -18°C	AW	YES	YES
FML-1	L0144-	ANHYDROUS CALCIUM	1	144 / 750	310 / 340	285°F / 141°C	0°F / -18°C	AW	YES	YES
FML-2	L0145-	ANHYDROUS CALCIUM	2	144 / 750	265 / 290	285°F / 141°C	0°F / -18°C	AW	YES	YES

*FML Series greases are available in Cans, Pails, 1/4 Drums & Drums, FML-2 is available in Cartridges. See page 15 for more information and package part number suffix.

PURE TAC: Tacky, Adhesive Food Grade Grease.

This tacky, adhesive, highly water resistant, Class H-1 grease is designed for applications subjected to chemically treated water, heat and steam. For all types of medium to slow speed bearings, open gears and hydrostatic cooker chains.

LUBRIPLATE PRODUCT	*PRODUCT PART NO.	GREASE TYPE	NLGI DENSITY	OIL VIS. cSt/SUS @40°C/100°F	WORKED PENETRATION	ASTM DROP POINT	APPROX COLD TEST	AW / EP	RUST & OXID. ADDITIVES	WATER RESISTANT
PURE TAC	L0236-	ALUMINIUM COMPLEX	2	1187 / 6500	265 / 295	520°F / 271°C	25°F / -4°C	AW	YES	YES

*PURE TAC is available in Cartridges, Pails, 1/4 Drums & Drums. See page 15 for more information and package part number suffix.

CLEARPLEX-2: Clear, Multi-Purpose Food Grade Grease.

This Aluminum Complex thickened, H-1 class grease is engineered for use in plain and anti-friction bearings in the food-processing and beverage processing industry. Contains non zinc-oxide anti-wear additive.

LUBRIPLATE PRODUCT	*PRODUCT PART NO.	GREASE TYPE	NLGI DENSITY	OIL VIS. cSt/SUS @40°C/100°F	WORKED PENETRATION	ASTM DROP POINT	APPROX COLD TEST	AW / EP	RUST & OXID. ADDITIVES	WATER RESISTANT
CLEARPLEX-2	L0351-	ALUMINIUM COMPLEX	2	104 / 500	265 / 295	450°F / 232°C	10°F / -12°C	AW	YES	YES

*CLEARPLEX-2 is available in Cartridges, Pails, 1/4 Drums & Drums. See page 15 for more information and package part number suffix.

Food Grade Spray Lubricants / Class H-1*

Certified Kosher Pareve

NSF H-1 REGISTERED

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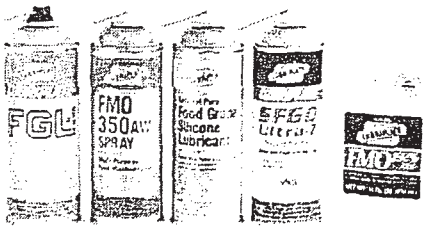

FGL-1 Spray: Class H-1 lubricant in handy easy to use 11 OZ. / 312 g. spray can. Quick and clean applications. Fortified with anti-wear, anti-rust, and anti-corrosion additives. Part No. L0231-063

Super FML-2 Spray: A Class H-1 white lubricant in handy, easy to use spray can. For use in food processing operations where a Class H-1 lubricant is required. Part No. L0145-063.

FMO-85-AW Spray: A multi-purpose Class H-1 oil. Packed in 14 OZ. / 414 ml hand pump, non-aerosol spray bottle. Part No. L0880-067.

FMO-350-AW Spray: A Class H-1 food machinery oil, in easy to apply spray can. For use where a Class H-1 oil is required. Part No. L0882-063.

Food Grade Silicone Lubricant: A multi-purpose, silicone lubricant for use on bottling, dairy and food processing machinery. For slides, O-rings, rubber seals and general lubrication. Part No. L0723-063.

SFGO Ultra-7 Spray: A multi-purpose, synthetic fluid lubricant, for use on bottling, dairy and food processing machinery. For chains, slides and general lubrication. Part No. L0912-063.

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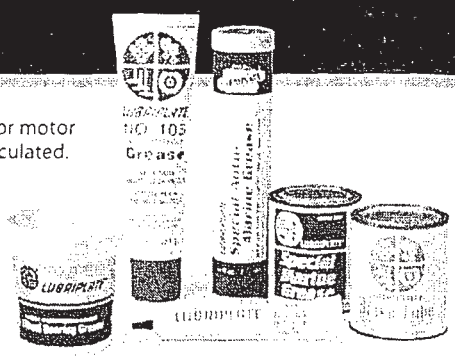
*H-1 Class Lubricants are manufactured with ingredients that comply with FDA regulation 21 CFR 178.3570 for lubricants with incidental contact with the edible product.

Automotive Lubricants



No. 105 Motor Assembly Grease: A smooth light-bodied grease made especially for motor assembly. Prevents "Dry Start." Provides lubrication during initial start up before the motor oil has circulated. Protects freshly machined engine parts from rust and corrosion. Part No. L0034-094.

No. 105 "B" Tube General Purpose Grease: The original white grease in handy tube. Ideal for locks, latches, hinges, wiper mechanisms, speedometer cables, or anywhere you need a light-bodied, grease type lubricant. Also excellent for motor assembly. Part No. L0034-086.

Wheel Bearing Grease: A superior, long lasting, water resistant, extreme pressure, wheel bearing grease. N.L.G.I. GC-LB certified. Available in 16 oz. Plastic Tubs, Part No. L0220-004, as well as 6 lb Cans, Pails, 1/4 Drums and Drums. See page 15 for package part number suffix.

Special Auto Marine Grease: A super multi-purpose, high temperature, water repellent, extreme pressure grease for automotive and marine uses. Available in 14 oz. Cans Part No. L0206-001 and 14.5 oz. Cartridges Part No. L0206-098.

No. 110 Brake Lubricant: This water repellent grease is designed for the contact points where the brake shoes rest on the backing plate and for the automatic adjusters inside the brake assembly. Product Part No. L0037- Available in Cans, Pails, 1/4 Drums and Drums. See page 15 for package part number suffix.

Spray Lubricants: See page 15 for information.

Motor Oils & Transmission Fluids

Super GPO Heavy-Duty Motor Oils: Designed for naturally aspirated and turbo-charged diesel, gasoline and LP gas engines. Ideal for mixed fleets, construction equipment, trucks and automobiles. API service CG-4, CF-4 (15W-40 & 10W-30), CF, CF-2, CE, CD, SH, SJ, MIL-L-2104G and MIL-L-46152E. SAE 30, Pt. No. L0749-, SAE 40, Pt. No. L0752-, SAE 10W-30, Pt. No. L0754-, SAE 15W-40, Pt. No. L0753-.

Super HDS Motor Oil: Fully detergent motor oils for diesel and gasoline engines. Protects against oxidation, corrosion, foaming, sludge and wear. For service SJ / CF, MIL-L-46152E. SAE 10W, Pt. No. L0788-, SAE 20-20W, Pt. No. L0789-, SAE 30, Pt. No. L0791-, SAE 40, Pt. No. L0792-, SAE 50, Pt. No. L0793-.

Super 345, SAE 5W-30 Long Mileage Motor Oil: Designed for today's smaller automobile engines. For service SJ / CF / ILSAC GF-1. Energy Conserving II. Part No. L0732-. See page 15 for packaging information.

Non-Detergent Motor Oil: A top quality non-detergent motor oil. For use where detergent oils are not required or desired. For service SA. SAE 10W, Pt. No. L0804-, SAE 20-20W, Pt. No. L0806-, SAE 30, Pt. No. L0807-, SAE 40, Pt. No. L0808, SAE 50, Pt. No. L0809-. See page 15 for packaging information.

2 Cycle Motor Oil: For use in air cooled, 2 cycle engines on motor cycles, lawn equipment, chain saws, snowmobiles and outboards. Pt. No. L0826-.

DEXRON III / MERCON Automatic Transmission Fluid: Recommended and approved for all General Motors, Chrysler, and Ford (1989 and Newer) or anywhere Dexron and Ford Mercon Fluids are specified. Product Part No. L0867-. See page 15 for packaging information.

Hydraulic-Transmission Fluid Type UTF: For heavy-duty equipment where UTF type fluids are required. Pt. No. L0873-.

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Metal Working Fluids

Darl No. 2 Cutting Oil: Multi-purpose dark cutting oil for all types of machining operations on a wide range of metals including, steel, copper, brass, and aluminum. Product Part No. L0520-. See page 15 for packaging information and package part number sufix.

No. 405 Dark Cutting Oil: Heavy-duty, dark cutting oil recommended for difficult machining operations. Excellent for high carbon steels, alloys, and stainless steels. Not recommended for brass, bronze, copper, or aluminum. Product Part No. F0587-. See page 15 for packaging information.

Flokool XX Cutting Oil: Multi-purpose cutting oil for high speed machining operations. Appears transparent on the workpiece and will drain off the completed parts quickly. Not recommended for brass, bronze, or copper. Product Part No. F0530-. See page 15 for packaging information.

Honing Oil: Light viscosity oil compounded with non-corrosive, sulfurized fatty bases to insure good fluidity and wetting action. Part No. F0535-.

No. 35 Soluble Oil: Multi-purpose, water soluble cutting oil. Forms a milky white emulsion that does not readily decompose. Part No. L0576-.

Cut-n-Cool: Heavy duty, water soluble cutting oil fortified with both sulfur and chlorine which delivers substantially longer tool life, improved finish, and more accurate cuts. May stain brass, bronze, and copper if not cleaned off work shortly after use. Product Part No. L0514-. See page 15 for packaging information.

Metal Working Fluid: A specially developed product for metal working operations. Excellent for drilling, tapping, sawing, and grinding. Packed in handy 12 OZ. / 340 g. spray can. Part No. L0185-063. See page 15 for packaging information.

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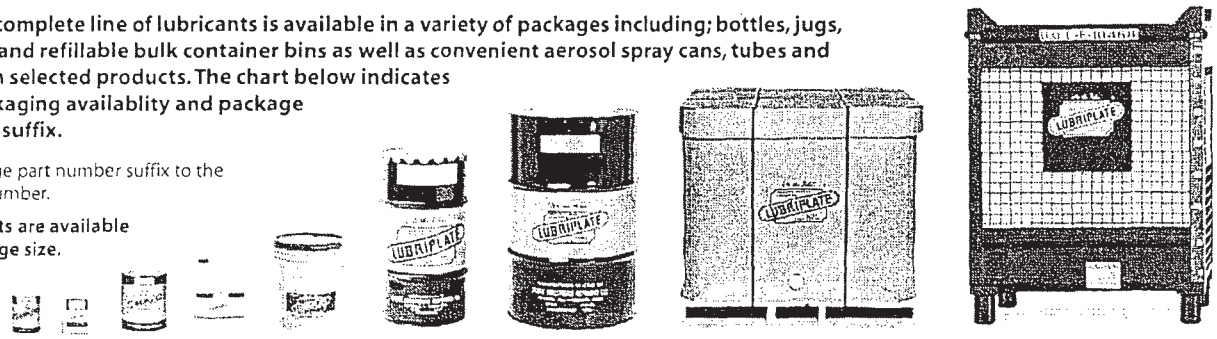
Packaging Containers

Lubriplate's complete line of lubricants is available in a variety of packages including; bottles, jugs, pails, drums and refillable bulk container bins as well as convenient aerosol spray cans, tubes and cartridges on selected products. The chart below indicates product packaging availablity and package part number suffix.

Add the package part number suffix to the product part number.

Not all products are available in every package size.



PRODUCT / PACKAGE PART NO. SUFFIX	24 / SM. CANS 14 OZ. / 397 g	12 / BOTTLES 1 QUART / 946 ml 2 LB. / .907 kg	6 / CANS 6 LB. / 2.72 kg	4 / JUGS 1 GAL. / 3.79 L 7 LB / 3.18 kg	PAIL 35 LB. / 15.9 kg 5 GAL. / 18.9 L	QTR. DRUM 120 LB. / 54 kg 16 GAL. / 60.5 L	FULL DRUMS 400 LB. / 181 kg 55 GAL. / 208 L	REFILLABLE OR DISPOSABLE BULK BINS.**
Multi-Purpose Synthetic Fluids	-	-	-	-057	-060	-061	-062	•
Air Compressor Fluids / Oils	-	-054	-	-057	-060	-061	-062	•
Hydraulic Oils	-	-	-	-057	-060	-061	-062	•
*Greases	-001	-	-006	-	-035	-039	-040	•
*Gear, Bearing & Recirculating Oils	-	-013	-	-007	-035	-039	-040	•
Specialty Greases	-001	-	-006	-	-035	-039	-040	•
Specialty Oils & Fluids	-	-054	-	-057	-060	-061	-062	•
Food Machinery Grade Fluids / Oils	-	-054	-	-057	-060	-061	-062	•
*Food Machinery Grade Greases	001	-	-006	-	-035	-039	-040	•
Motor Oils / Transmission Fluids	-	-054	-	-	-060	-	-062	•
Metal Working Fluids	-	-	-	-057	-060	-061	-062	•

*Items Sold By Weight. **For size, package part number suffix and price information on Bulk Bins call 800-733-4755.

Grease Cartridges: Lubriplate Grease Cartridges provide quick, clean, convenient, "on site" lubrication with reduced waste and grease contamination. SYNXTREME HD-2, SYN-1601, SYN-1602, No. 630-2, 730-2, 930-AA, 930-2, 1200-2, 1241, 1242, 1444, 1551, 1552, 3000, 3000-W, HIGH TEMP, LOW TEMP, MO-LITH NO. 2, MAG 1, EMB, SYNXTREME FG-2, SFL-1, SFL-2, FGL-1, FGL-2, FML-2, PURE TAC, CLEARPLEX-2 and SPECIAL AUTO-MARINE GREASE: These products are available in 14 1/2 OZ. / 411g cartridges, 40 to a case. Package Part No. Suffix -098.

GEAR SHIELD EXTRA HEAVY: Available in 10 1/2 OZ. / 297g caulk type cartridges, 40 to a case. Part No. L0152-000.

Lubricants In Plastic Tubes:

No. 105, 630-AA and AERO are available in 3/8 OZ. / 10.6 g plastic tubes, 288 to a case. Package Part No. Suffix -076.

No. 105, 130-AA, 630-AA, 930-AA, AERO and DS-ES are available in 1 3/4 OZ. / 50 g tubes, 36 to a case. Part No. Suffix -086.

No. 105 Gear Lube, 130-AA, 630-AA, LOW-TEMP, and APG 90 GEAR OIL are available in 10 OZ. / 284 g plastic tubes, 36 to a case. Package Part No. Suffix -092. and No. 105 Motor Assembly Grease Part No. L0034-094.

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Multi-Purpose Spray Lubricants

Chain & Cable Fluid: Superior penetrating oil. A cleansing non-gumming oil. Lubricates wire rope, chains, cables, any moving metal surfaces. Prevents rust and corrosion. Protects brightwork, loosens rusty nuts and bolts. Excellent drilling, tapping, and sawing oil. 12 OZ. / 340 g. spray can. Part No. L0135-063.

Spray Lube "A": A multi-pupose, white lithium-based lubricant of medium density. Sprays like a fluid, congeals to a grease. Excellent for latches, locks, hinges, battery terminals and other hardware. Part No. L0034-063.

Gear Shield Extra Heavy: Developed for easy lubrication of open gears. A tough tacky grease. Excellent for fifth wheel applications. Packed in handy 11 OZ. / 311.8 g. spray can. Part No. L0152-063.

Oil Well In a Bottle™: An excellent multi-purpose, penetrating oil ideal for slides, hinges, rollers, cables, frozen nuts and bolts. Prevents rust and corrosion. Moisture displacing agent works on wet ignition for "wet start." Packed in 14 OZ. / 414 ml. non-aerosol, hand pump, spray bottle. Part No. L0188-067.

X-357 Lubricant: A special extreme pressure lubricant that penetrates and adheres. Water resistant and unaffected by temperature extremes. For use on pintle hooks, slide axles, open gears, fifth wheels. Contains moly-disulfide. Packed in handy 11 OZ. / 311.8 g. spray can. Part No. L0149-063.

Marine & Auto Guard: Multi-purpose penetrating oil. An excellent "wet start" product. Spray on wet plug wires and distributor cap. Outstanding moisture displacement properties. Prevents rust and corrosion. Excellent fogging oil. Packed in 12 OZ. / 340 g. spray can. Part No. L0774-063.

Food Machinery Grade Spray Lubricants: See page 13 for information on these lubricants.

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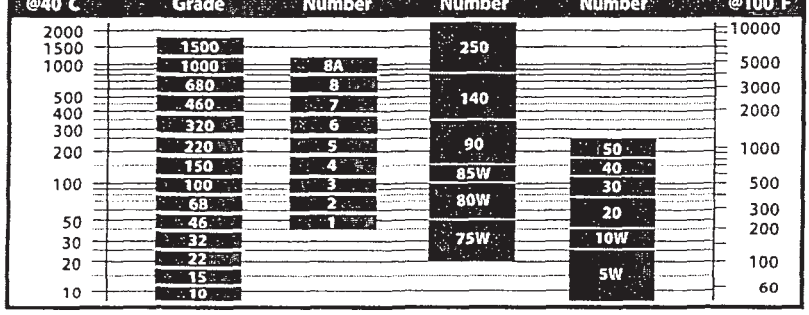
General Application Recommendations

The multitude of industrial machinery and construction equipment on the market today makes specific applications impossible to list here. It is best to refer to the OEM service manuals of the machinery for specific lubrication recommendations. Listed below are a few lubricants that will cover most general requirements. For additional information contact your local Lubriplate Distributor, Lubriplate District Manager (listed below) or Jim Girard, (800)733-4755.

APPLICATIONS	NORMAL TEMPERATURES	HIGH TEMPERATURES	LOW TEMPERATURES	FOOD MACHINERY GRADE NSF H-1 CLASS / FDA CFR 178.3570
GENERAL GREASE	1200-2 / SYN-1602	HIGH TEMP / 1552 / SYN-1602	MAG-1 / SYN-1602	FGL-1 / FGL-2 / SYNXTREME FG-2
GENERAL OIL	SPO-233 / SYN-LUBE-100	SPO-266 / SYN-LUBE-320	SPO-233 / SYN-LUBE-100	FMO-350AW / SFGO ULTRA-68
CENTRALIZED SYSTEMS / GREASE	930-AAA / 630-AAA / SYN-1600	930-AAA / SYN-1600	MAG-00 / 1550	FGL-0 / FGL-00 / SFL-0
CENTRALIZED SYSTEMS / OIL	SPO-233 / SYN-LUBE-100	SPO-277 / SYN-LUBE-460	SPO-222 / SYN-LUBE-68	FMO-350AW-500AW / SFGO ULTRA 68
GEAR BOXES (HELICAL, SPUR)	SPO-255 / SYN-LUBE-220	SPO-MG / SYN-LUBE-320	SPO-244 / SYN-LUBE-150	FMO-1100AW / SFGO ULTRA 220
GEAR BOXES (WORM)	SPO-277 / SYN-LUBE-460	SPO-288 / SYN-LUBE-680	SPO-MG / SYN-LUBE-320	FMO-3800AW / SFGO ULTRA 680
OPEN GEARS	GEAR SHIELD EXTRA HEAVY	GEAR SHIELD XTRA HEAVY	LOW TEMP GEAR SHIELD	PURE TAC
HYDRAULIC EQUIPMENT	HO-1 / HO-2 / SYN-LUBE-68	HO-2A / SYN-LUBE-100	LOW POUR HO / SFGO ULTRA-7	FMO-350AW / SFGO ULTRA 68
AIR COMPRESSORS (RECIPROCATING)	SYN-LUBE-68	SYN-LUBE-100	SYN-LUBE-32	SFGO ULTRA-68 or 100
AIR COMPRESSORS (ROTARY SCREW)	SYN-LUBE-46	SYN-LUBE-46	SYN-LUBE-32	SFGO ULTRA-46 or 68
HIGH SPEED BEARINGS (OIL)	HO-0 / SYN-LUBE-32	SPO-233 / SYN-LUBE-100	1 / SYN-LUBE-32	FMO-350AW / SFGO ULTRA-68
HIGH SPEED BEARINGS (GREASE)	EMB / POLY HP-2 / SYN-1602	1552 / POLY HP-2 / SYN-1602	MAG-1 / GR-132 / SYN-1602	FGL-1 / SFL-1
LOW SPEED BEARINGS (OIL)	SPO-244 / SYN-LUBE-150	SPO-255 / SYN-LUBE-220	SPO-233 / SYN-LUBE-100	FMO-500AW / SFGO ULTRA 100
LOW SPEED BEARINGS (GREASE)	1242 / 1552 / SYN-1602	HIGH TEMP / 1552 / SYN-1602	MAG-1 / SYN-1602	FGL-2 / SFL-2
WHEEL BEARINGS (GREASE)	1552 / SYN-1602	1552 / SYN-1602	1552 / SYN-1602	FGL-1 / SYNXTREME FG-2
SLIDES / CAMS	1241 / 1242 / SYN-1602	1444 / SYN-1602	MAG-1 / SYN-1602	FGL-2 / SYNXTREME FG-2
MIST SYSTEMS	Mist Oil / SYN-LUBE-100	Mist Oil / SYN-LUBE-100	Rock Drill Oil 10R / SYN-LUBE-32	FMO-350AW / SFGO ULTRA-68
WIRE ROPE / CABLES / CHAINS	Chain & Cable Fluid	SPO-288	Chain & Cable Fluid	FMO-350AW / SFGO ULTRA-7
RUST / CORROSION PREVENTION	Chain & Cable Fl / SFGO ULTRA-7	Chain & Cable Fl / SFGO ULTRA-7	Chain & Cable Fl / SFGO ULTRA-7	FMO-350AW / SFGO ULTRA-7
ENGINE REBUILDING	105	105	105	-
MOLY GREASE (MOS_2)	3000	3000	3000W	-
REFRIGERATION COMPRESSORS	68N OR 68P Refrigeration Compressor Oil - Consult Data Sheet 5-23 and 5-23A for details.			RCO-68

Petroleum Based Product Synthetic Based Product

Oil Viscosity Classification Comparisons



NLGI Grease Classifications

NLGI NO.	DESCRIPTION	WORKED PENETRATION ASTM @ 77°F / 25°C
000	SEMI-FLUID	445 - 475
00	SEMI-FLUID	400 - 430
0	VERY-SOFT	355 - 385
1	SOFT	310 - 340
2	MEDIUM SOFT	265 - 295
3	MEDIUM	220 - 250
4	HARD	175 - 205
5-6	VERY HARD	85 - 160

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Chief International Representative: Charles Husko - 1-813-907-3027
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TOLEDO, OH OFFICE / PHONE 419-691-2491 / FAX 800-347-5348

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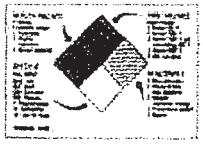
- Tags



Material Safety Data Sheet

Name H0-3 LUBRIPLATE HYDRAULIC OIL **MSDS** cgwhn
Company FISKE BROS REFINING CO **FSC** 9150

MSDS Safety Information

FSC: 9150
MSDS Date: 01/01/1996
MSDS Num: CGWHN
LIIN: 00F032623
Product ID: H0-3 LUBRIPLATE HYDRAULIC OIL
MFN: 02
Responsible Party
Cage: 73219
Name: FISKE BROS REFINING CO
Address: 129 LOCKWOOD ST
City: NEWARK NJ 07105-4720
Info Phone Number: 201-589-9150
Emergency Phone Number: 201-589-9150
Preparer's Name: JAMES R KONTAK
Review Ind: Y
Published: Y

Preparer Co. when other than Responsible Party Co.

Cage: 73219
Name: FISKE BROS REFINING CO
Address: 129 LOCKWOOD ST
City: NEWARK NJ 07105-4720

Contractor Summary

Cage: 73219
Name: FISKE BROS REFINING CO
Address: 129 LOCKWOOD ST
City: NEWARK NJ 07105-4720
Phone: 201-589-9150

Ingredients

Name: MINERAL OIL

Name: ADDITIVES

Name: ZINC COMPOUND
% Wt: ANDlt;2

Health Hazards Data

FJK000074

Route Of Entry Inds - Inhalation: YES
Skin: NO
Ingestion: YES
Carcinogenicity Inds - NTP: NO
IARC: NO
OSHA: NO
Effects of Exposure: EYES: IRRITATION. SKIN: PROLONGED/REPEATED CONTACT MAY CAUSE IRRITATION. INGESTION: LOW TOXIC. MINUTE AMOUNTS ASPIRATED INTO THE LUNGS DURING INGESTION MAY CAUSE MILD TO SEVERE PULMONARY INJURY. IF IN JECTED BY HIGH PRESSURE UNDER SKIN, DELAY OF MEDICAL ATTENTION MAY CAUSE LOSS

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OF AFFECTED PART OF THE BODY.
Explanation Of Carcinogenicity: NONE
Signs And Symptions Of Overexposure: IRRITATION
First Aid: EYES: FLUSH W/CLEAR WATER FOR 15 MINS. SKIN: WASH W/SOAP ANDamp; WATER. INHALATION: IMMEDIATELY REMOVE FROM EXPOSURE. INGESTION: DON'T INDUCE VOMITING. OBTAIN MEDICAL ATTENTION IN ALL CASES.

Handling and Disposal

Spill Release Procedures: RECOVER LIQUID, WASH REMAINDER W/SUITABLE PETROLEUM SOLVENT/ADD ABSORBENT. KEEP PETROLEUM OUT OF SEWERS ANDamp; WATER COURSES.
Waste Disposal Methods: DISPOSE OF ABSORBED MATERIAL AT AN APPROVED WASTE DISPSOAL FACILITY/SITE IAW/LOCAL, STATE ANDamp; FEDERAL REGULATIONS.
Handling And Storage Precautions: KEEP CONTAINERS CLOSED WHEN NOT IN USE. DON'T HANDLE/STORE NEAR HEAT, SPARKS, FLAME/STRONG OXIDANTS.
Other Precautions: AVOID BREATHING OIL MIST.

Fire and Explosion Hazard Information

Flash Point Method: COC
Flash Point Text: 415-480F
Lower Limits: 0.9
Upper Limits: 7
Extinguishing Media: FOAM, DRY CHEMICAL, CO2/WATER SPRAY (FOG)
Fire Fighting Procedures: COOL EXPOSED CONTAINERS W/WATER. USE AIR SUPPLIED BREATHING EQUIPMENT FOR ENCLOSED/CONFINED SPACES.
Unusual Fire/Explosion Hazard: DON'T STORE/MIX W/STRONG OXIDANTS. EMPTY CONTAINERS RETAIN RESIDUE. DON'T CUT, DRILL, GRIND/WELD AS THEY MAY EXPLODE.

Control Measures

Respiratory Protection: NORMALLY NOT NEEDED
Ventilation: LOCAL EXHAUST: USED TO CAPTURE FUMES ANDamp; VAPORS.
Protective Gloves: OIL-RESISTANT
Eye Protection: GOGGLES
Other Protective Equipment: OIL RESISTANT APRON
Work Hygienic Practices: REMOVE/LAUNDER CONTAMINATED CLOTHING BEFORE REUSE. CLEANS THOROUGHLY AFTER CONTACT.

Physical/Chemical Properties

B.P. Text: ANDgt;550F
Vapor Pres: ANDlt;0.01
Vapor Density: ANDgt;5
Spec Gravity: 0.87-0.89
Solubility in Water: NEGLIGIBLE
Appearance and Odor: TRANSPARENT AMBER LIQUID W/MINERAL OIL ODOR

Reactivity Data

Stability Indicator: YES
Stability Condition To Avoid: HEAT, SPARKS, FLAME
Materials To Avoid: STRONG OXIDANTS; LIQUID CHLORINE, CONCENTRATED OXYGEN
Hazardous Decomposition Products: SULFUR DIOXIDE; CO
Hazardous Polymerization Indicator: NO

Toxicological Information

Ecological Information

MSDS Transport Information

FJK000075

Regulatory Information

Other Information

HAZCOM Label

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Product ID: HO-3 LUBRIPLATE HYDRAULIC OIL
Cage: 73219
Company Name: FISKE BROS REFINING CO
Street: 129 LOCKWOOD ST
City: NEWARK NJ
Zipcode: 07105-4720
Health Emergency Phone: 201-589-9150
Label Required IND: Y
Date Of Label Review: 10/12/1999
Status Code: A
Origination Code: G
Hazard And Precautions: EYES: IRRITATION. SKIN: PROLONGED/REPEATED CONTACT MAY CAUSE IRRITATION. INGESTION: LOW TOXIC. MINUTE AMOUNTS ASPIRATED INTO THE LUNGS DURING INGESTION MAY CAUSE MILD TO SEVERE PULMONARY INJURY. IF IN JECTED BY HIGH PRESSURE UNDER SKIN, DELAY OF MEDICAL ATTENTION MAY CAUSE LOSS OF AFFECTED PART OF THE BODY.

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FISKE BROS REFINING -- 115 LUBRIPLATE - PETROLEUM LUBRICATING GREASE
MATERIAL SAFETY DATA SHEET
NSN: 915000F046313
Manufacturer's CAGE: 73219
Part No. Indicator: A
Part Number/Trade Name: 115 LUBRIPLATE

==========

General Information

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Item Name: PETROLEUM LUBRICATING GREASE
Company's Name: FISKE BROS REFINING CO
Company's Street: 129 LOCKWOOD ST
Company's City: NEWARK
Company's State: NJ
Company's Country: US
Company's Zip Code: 07105-4720
Company's Emerg Ph #: 201-589-9150
Company's Info Ph #: 201-589-9150
Record No. For Safety Entry: 001
Tot Safety Entries This Stk#: 001
Status: SE
Date MSDS Prepared: 01JAN94
Safety Data Review Date: 06MAR96
MSDS Preparer's Name: JAMES R KONTAK
Preparer's Company: FISKE BROS REFINING CO
Preparer's St Or P. O. Box: 129 LOCKWOOD ST
Preparer's City: NEWARK
Preparer's State: NJ
Preparer's Zip Code: 07105-4720
MSDS Serial Number: BYMTK

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Ingredients/Identity Information

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Proprietary: NO
Ingredient: CALCIUM SOAP
Ingredient Sequence Number: 01
NIOSH (RTECS) Number: 1002172CS

Proprietary: NO
Ingredient: MINERAL OIL
Ingredient Sequence Number: 02
NIOSH (RTECS) Number: 1002836MO

Proprietary: NO
Ingredient: ADDITIVES
Ingredient Sequence Number: 03
NIOSH (RTECS) Number: 1000144AD

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Physical/Chemical Characteristics

Appearance And Odor: SMOOTH, WHITE GREASE W/MINERAL OIL ODOR
Boiling Point: >550F
Vapor Pressure (MM Hg/70 F): <0.01
Vapor Density (Air=1): >5
Specific Gravity: 0.89-0.93
Evaporation Rate And Ref: (BU AC=1): <0.01
Solubility In Water: NEGLIGIBLE

Fire and Explosion Hazard Data

Flash Point: 360F
Flash Point Method: COC
Lower Explosive Limit: 0.9
Upper Explosive Limit: 7
Extinguishing Media: FOAM, DRY CHEMICAL, CO2/WATER SPRAY
Special Fire Fighting Proc: USE AIR-SUPPLIED BREATHING EQUIPMENT FOR ENCLOSED/CONFINED AREAS. COOL EXPOSED CONTAINERS W/WATER.
Unusual Fire And Expl Hazrds: EMPTY CONTAINERS RETAIN RESIDUE. DON'T CUT, DRILL, GRIND/WELD AS THEY MAY EXPLODE.

Reactivity Data

Stability: YES
Cond To Avoid (Stability): HEAT, SPARKS, FLAME.
Materials To Avoid: STRONG OXIDANTS LIKE LIQUID CHLORINE, CONCENTRATED OXYGEN.
Hazardous Decomp Products: SULFUR DIOXIDE INCOMPLETE COMBUSTION MAY FORM CO.
Hazardous Poly Occur: NO

Health Hazard Data

Route Of Entry - Inhalation: YES
Route Of Entry - Skin: NO
Route Of Entry - Ingestion: NO
Health Haz Acute And Chronic: EYES/SKIN: IRRITATION. INHALATION: MINUTE AMOUNTS ASPIRATED INTO LUNGS MAY CAUSE MILD TO SEVERE PULMONARY INJURY.
Carcinogenicity - NTP: NO
Carcinogenicity - IARC: NO
Carcinogenicity - OSHA: NO
Explanation Carcinogenicity: NONE
Signs/Symptoms Of Overexp: IRRITATION.
Emergency/First Aid Proc: EYES: FLUSH W/WATER FOR 15 MINS. SKIN: WASH W/SOAP & WARM WATER. IF INJECTED BY HIGH PRESSURE, REGARDLESS OF THE APPEARANCE/IT'S SIZE. CONTACT PHYSICIAN IMMEDIATELY. DELAY MAY CAUSE LOSS OF AFFECTED BODY PARTS. INHALATION: REMOVE TO FRESH AIR. INGESTION: DON'T INDUCE VOMITING. OBTAIN MEDICAL ATTENTION IN ALL CASES.

Precautions for Safe Handling and Use

Steps If Matl Released/Spill: SCRAPE UP GREASE, WASH REMAINDER W/SUITABLE PETROLEUM SOLVENT/ADD ABSORBENT. KEEP PETROLEUM PRODUCTS OUT OF SEWERS & WATER COURSES. ADVISE AUTHORITIES IF PRODUCT HAS ENTERED/MAY ENTER SEWERS & WATER COURSES.
Waste Disposal Method: DISPOSE OF IAW/FEDERAL, STATE & LOCAL REGULATIONS. DISPOSE OF ABSORBED MATERIAL AT AN APPROVED WASTE DISPOSAL FACILITY/SITE.
Precautions-Handling/Storing: KEEP CONTAINERS CLOSED WHEN NOT IN USE. DON'T HANDLE/STORE NEAR HEAT, SPARKS, FLAME/STRONG OXIDANTS.
Other Precautions: EXPOSURE TO LIQUIDS, VAPORS, MISTS & FUMES SHOULD BE MINIMIZED.

Control Measures

Respiratory Protection: NORMALLY NOT NEEDED
Ventilation: LOCAL EXHAUST: USED TO CAPTURE FUMES AND VAPORS
Protective Gloves: OIL-RESISTANT
Eye Protection: GOGGLES
Other Protective Equipment: OIL-RESISTANT APRON
Work Hygienic Practices: REMOVE/LAUNDER CONTAMINATED CLOTHING BEFORE REUSE. WASH THOROUGHLY AFTER HANDLING.
Suppl. Safety & Health Data: THE TLV FOR OIL MIST IN AIR IS 5 MG/CUM.

Transportation Data

Disposal Data

Label Data

Label Required: YES
Label Status: G
Common Name: 115 LUBRIPLATE
Special Hazard Precautions: EYES/SKIN: IRRITATION. INHALATION: MINUTE AMOUNTS ASPIRATED INTO LUNGS MAY CAUSE MILD TO SEVERE PULMONARY INJURY. IRRITATION.
Label Name: FISKE BROS REFINING CO
Label Street: 129 LOCKWOOD ST
Label City: NEWARK
Label State: NJ
Label Zip Code: 07105-4720
Label Country: US
Label Emergency Number: 201-589-9150

FISKE BROS REFINING CO -- HO-0 LUBRIPLATE HYDRAULIC OIL -- 9150-00F003874

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MSDS Safety Information

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FSC: 9150
MSDS Date: 01/01/1996
MSDS Num: CGWHK
LIIN: 00F003874
Tech Review: 04/22/1998
Product ID: HO-0 LUBRIPLATE HYDRAULIC OIL
Responsible Party
Cage: 73219
Name: FISKE BROS REFINING CO
Address: 129 LOCKWOOD ST
City: NEWARK NJ 07105-4720 US
Info Phone Number: 201-589-9150
Emergency Phone Number: 201-589-9150
Preparer's Name: JAMES R KONTAK

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Preparer Co. when other than Responsible Party Co.

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Cage: 73219
Assigned Ind: N
Name: FISKE BROS REFINING CO
Address: 129 LOCKWOOD ST
City: NEWARK NJ 07105-4720

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Contractor Summary

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Cage: 73219
Name: FISKE BROS REFINING CO
Address: 129 LOCKWOOD ST
City: NEWARK NJ 07105-4720 US
Phone: 201-589-9150

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Ingredients

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Name: MINERAL OIL

Name: ADDITIVES

Name: ZINC COMPOUND
% by Wt: <2

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Health Hazards Data

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Route Of Entry Inds - Inhalation: YES
Skin: NO
Ingestion: YES
Carcinogenicity Inds - NTP: NO
IARC: NO
OSHA: NO
Effects of Exposure: EYES: IRRITATION. SKIN: PROLONGED/REPEATED CONTACT MAY CAUSE IRRITATION. INGESTION: LOW TOXIC. MINUTE AMOUNTS ASPIRATED INTO THE LUNGS DURING INGESTION MAY CAUSE MILD TO SEVERE PULMONARY INJURY. IF IN JECTED BY HIGH PRESSURE UNDER SKIN, DELAY OF MEDICAL ATTENTION MAY CAUSE LOSS OF AFFECTED PART OF THE BODY.
Explanation Of Carcinogenicity: NONE
Signs And Symptions Of Overexposure: IRRITATION
First Aid: EYES: FLUSH W/CLEAR WATER FOR 15 MINS. SKIN: WASH W/SOAP & WATER. INHALATION: IMMEDIATELY REMOVE FROM EXPOSURE. INGESTION: DON'T INDUCE VOMITING. OBTAIN MEDICAL ATTENTION IN ALL CASES.

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Handling and Disposal
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Spill Release Procedures: RECOVER LIQUID, WASH REMAINDER W/SUITABLE PETROLEUM SOLVENT/ADD ABSORBENT. KEEP PETROLEUM OUT OF SEWERS & WATER COURSES.
Waste Disposal Methods: DISPOSE OF ABSORBED MATERIAL AT AN APPROVED WASTE DISPSOAL FACILITY/SITE IAW/LOCAL, STATE & FEDERAL REGULATIONS.
Handling And Storage Precautions: KEEP CONTAINERS CLOSED WHEN NOT IN USE. DON'T HANDLE/STORE NEAR HEAT, SPARKS, FLAME/STRONG OXIDANTS.
Other Precautions: AVOID BREATHING OIL MIST.
==========
Fire and Explosion Hazard Information
==========
Flash Point Method: COC
Flash Point Text: 415-480F
Lower Limits: 0.9
Upper Limits: 7
Extinguishing Media: FOAM, DRY CHEMICAL, CO2/WATER SPRAY (FOG)
Fire Fighting Procedures: COOL EXPOSED CONTAINERS W/WATER. USE AIR SUPPLIED BREATHING EQUIPMENT FOR ENCLOSED/CONFINED SPACES.
Unusual Fire/Explosion Hazard: DON'T STORE/MIX W/STRONG OXIDANTS. EMPTY CONTAINERS RETAIN RESIDUE. DON'T CUT, DRILL, GRIND/WELD AS THEY MAY EXPLODE.
==========
Control Measures
==========
Respiratory Protection: NORMALLY NOT NEEDED
Ventilation: LOCAL EXHAUST: USED TO CAPTURE FUMES & VAPORS.
Protective Gloves: OIL-RESISTANT
Eye Protection: GOGGLES
Other Protective Equipment: OIL RESISTANT APRON
Work Hygienic Practices: REMOVE/LAUNDER CONTAMINATED CLOTHING BEFORE REUSE. CLEANS THOROUGHLY AFTER CONTACT.
==========
Physical/Chemical Properties
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B.P. Text: >550F
Vapor Pres: <0.01
Vapor Density: >5
Spec Gravity: 0.87-0.89
Solubility in Water: NEGLIGIBLE
Appearance and Odor: TRANSPARENT AMBER LIQUID W/MINERAL OIL ODOR
==========
Reactivity Data
==========
Stability Indicator: YES
Stability Condition To Avoid: HEAT, SPARKS, FLAME
Materials To Avoid: STRONG OXIDANTS; LIQUID CHLORINE, CONCENTRATED OXYGEN
Hazardous Decomposition Products: SULFUR DIOXIDE; CO
Hazardous Polymerization Indicator: NO
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Toxicological Information
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Ecological Information
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MSDS Transport Information
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Regulatory Information
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Other Information
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HAZCOM Label
==========
Product ID: HO-0 LUBRIPLATE HYDRAULIC OIL
Cage: 73219
Company Name: FISKE BROS REFINING CO
Street: 129 LOCKWOOD ST
City: NEWARK NJ
Zipcode: 07105-4720 US
Health Emergency Phone: 201-589-9150
Date Of Label Review: 10/12/1999
Hazard And Precautions: EYES: IRRITATION. SKIN: PROLONGED/REPEATED CONTACT MAY CAUSE IRRITATION. INGESTION: LOW TOXIC. MINUTE AMOUNTS ASPIRATED INTO THE LUNGS DURING INGESTION MAY CAUSE MILD TO SEVERE PULMONARY INJURY. IF IN JECTED BY HIGH PRESSURE UNDER SKIN, DELAY OF MEDICAL ATTENTION MAY CAUSE LOSS OF AFFECTED PART OF THE BODY.
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Material Safety Data Sheet

SECTION I - Material Identity
SECTION II - Manufacturer's Information
SECTION III - Physical/Chemical Characteristics
SECTION IV - Fire and Explosion Hazard Data
SECTION V - Reactivity Data
SECTION VI - Health Hazard Data
SECTION VII - Precautions for Safe Handling and Use
SECTION VIII - Control Measures
SECTION IX - Label Data
SECTION X - Transportation Data
SECTION XI - Site Specific/Reporting Information
SECTION XII - Ingredients/Identity Information

SECTION I - Material Identity

Item Name	
Part Number/Trade Name	LUBRIPLATE "100"SERIES #105
National Stock Number	9150000584452
CAGE Code	73219
Part Number Indicator	A
MSDS Number	89095
HAZ Code	B

SECTION II - Manufacturer's Information

Manufacturer Name	FISKE BROTHERS REFINING COMPANY
P.O. Box	N/K
Street	129 LOCKWOOD STREET
City	NEWARK
State	NJ
Country	US
Zip Code	07105-4720
Emergency Phone	201-589-9150
Information Phone	201-589-9150

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MSDS Preparer's Information

MSDS Preparer Name	ROBERT J.SIBILIA
Date MSDS Prepared/Revised	01JUN89

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Date of Technical Review	15FEB90
Active Indicator	N
Item Manager	CX

Alternate Vendors

Vendor #1 Name	LUBRICANT PACKAGING SUPPLY COMPANY
Vendor #1 CAGE	8A122
Vendor #5 CAGE	BHJJP

SECTION III - Physical/Chemical Characteristics

Specification Number	N/R
Specification Type/Grade/Class	N/R
Hazard Storage Compatibility Code	N1-F6
NRC License Number	N/R
Net Propellant Weight (Ammo)	N/R
Appearance/Odor	SMOOTH,WHITE GREASE WITH MINERAL OIL ODOR
Boiling Point	>550F,>288C
Melting Point	SEMI-SOLID
Vapor Pressure	<0.01
Vapor Density	>5.0
Specific Gravity	0.89-0.93
Evaporation Rate	<0.01(N-BUTYL ACETATE =)
Solubility in Water	NEGLIGIBLE
Percent Volatiles by Volume	N/K
Chemical pH	N/K
Container Pressure Code	4
Temperature Code	8
Product State Code	U

SECTION IV - Fire and Explosion Hazard Data

Flash Point	360
Flash Point Method	UNK
Lower Explosion Limit	0.9
Upper Explosion Limit	7.0
Extinguishing Media	USE CARBON DIOXIDE, FOAM, DRY CHEMICAL, OR WATER FOG
Special Fire Fighting Procedures	FIRE FIGHTERS SHOULD USE NIOSH APPROVED SCBA & FULL PROTECTIVE EQUIPMENT WHEN FIGHTING CHEMICAL FIRE. USE WATER SPRAY TO COOL NEARBY CONTAINERS EXPOSED TO FIRE
Unusual Fire/Explosion Hazards	MAY EXPLODE OR EXCESSIVE HEAT MAY CAUSE PRODUCTION OF HAZARDOUS DECOMPOSITION PRODUCTS

SECTION V - Reactivity Data

Stability	YES
Stability Conditions to Avoid	HIGH TEMPERATURES
Materials to Avoid	STRONG OXIDIZING AGENTS,LIQUID CHLORINE,OR CONC.OXYGEN
Hazardous Decomposition Products	A MIXTURE OF AIRBORNE SOLID, LIQUID PARTICULATES AND GASES (CO) WILL EVOLVE WHEN THIS MATERIAL UNDERGOES COMBUSTION
Hazardous Polymerization	NO
Polymerization Conditions to Avoid	NOT APPLICABLE
LD50 - LD50 Mixture	N/K

SECTION VI - Health Hazard Data

Route of Entry: Skin	YES
Route of Entry: Ingestion	YES
Route of Entry: Inhalation	NO
Health Hazards - Acute and Chronic	ACUTE: EYE:MAY BE MILDLY IRRITATING. SKIN:RELEASE DURING HIGH PRESSURE USAGE MAY RESULT IN INJECTION OF OIL INTO THE SKIN CAUSING IRRITAION.INHALATION:NOT EXPECTED TO BE A RELEVANT ROUTE OF EXPOSURE; HIGH TEMPERATURE VAPORS IRRITATE RESPIRATORY TRACT. INGESTION:LOW LEVEL OF TOXICITY. CHRONIC: SKIN DISORDERS
Carcinogenity: NTP	NO
Carcinogenity: IARC	NO
Carcinogenity: OSHA	NO
Explanation of Carcinogenity	DATA PER MSDS
Symptoms of Overexposure	DATA PER MSDS
Medical Cond. Aggrevated by Exposure	PRE-EXISTING SKIN DISORDERS MAY BE AGGRAVATED BY EXPOSURE TO THIS PRODUCT
Emergency/First Aid Procedures	INHALATION: REMOVE TO FRESH AIR. GIVE OXYGEN IF BREATHING IS DIFFICULT. GET MEDICAL ATTENTION. EYE: FLUSH WITH WATER FOR 15 MINUTES WHILE HOLDING EYELIDS OPEN. GET MEDICAL ATTENTION. SKIN: WASH WITH SOAP & WATER/WATERLESS CLEANER. REMOVE CONTAMINATED CLOTHING. IF IRRITATION PERSISTS, GET MEDICAL ATTENTION. INGESTION: DO NOT INDUCE VOMITING. IN GENERAL, NO TREATMENT IS REQUIRED. GET MEDICAL ADVICE

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SECTION VII - Precautions for Safe Handling and Use

Steps if Material Released/Spilled	SCOOP UP EXCESS GREASE. CLEAN AREA WITH APPROPRIATE CLEANER
Neutralizing Agent	NONE SPECIFIED BY MANUFACTURER

Waste Disposal Method	DISPOSE OF IN AN APPROPRIATE DISPOSAL FACILITY IN COMPLIANCE WITH LOCAL REGULATIONS
Handling and Storage Precautions	RE IN A COOL, DRY PLACE WITH ADEQUATE VENTILATION. KEEP CONTAINERS TIGHTLY CLOSED WHEN NOT IN USE. KEEP AWAY FROM OPEN FLAMES & HIGH TEMPERATURES. MI
Other Precautions	MINIMIZE SKIN CONTACT. WASH WITH SOAP & WATER BEFORE EATING, DRINKING, SMOKING OR USING TOILET FACILITIES. LAUNDER CONTAMINATED CLOTHING BEFORE REUSE. PROPERLY DISPOSE OF CONTAMINATED LEATHER ARTICLES (SHOES) THAT CAN NOT BE DECONTAMINATED

SECTION VIII - Control Measures

Respiratory Protection	RESPIRATORY PROTECTION NOT ORDINARILY REQUIRED.USE NIOSH/MSHA APPROVED RESPIRATOR FOR ORGANIC VAPORS/MIST IF AVOVE PEL/TLV
Ventilation	NONE REQUIRED,USE LOCAL/GENERAL TO MAINTAIN PEL/TLV IN CASE OF MIST/VAPORS
Protective Gloves	RUBBER AS REQUIRED
Eye Protection	SAFETY GLASSES RECOMMENDED
Other Protective Equipment	EYE WASH STATION WORK CLOTHING AND APRON AS REQUIRED
Work Hygenic Practices	OBSERVE GOOD PERSONAL HYGIENE PRACTICES AND RECOMMENDED PROCEDURES. DO NOT WEAR CONTAMINATED CLOTHING OR FOOTWEAR
Supplemental Health/Safety Data	DO NOT GET IN EYES OR ON CLOTHING
Disposal Code	O

SECTION IX - Label Data

Protect Eye	NO
Protect Skin	NO
Protect Respiratory	NO
Chronic Indicator	UNKNOWN
Contact Code	UNKNOWN
Fire Code	UNKNOWN
Health Code	UNKNOWN
React Code	UNKNOWN
Specific Hazard and Precaution	ACUTE: EYE:MAY BE MILDLY IRRITATING. SKIN:RELEASE DURING HIGH PRESSURE USAGE MAY RESULT IN INJECTION OF OIL INTO THE SKIN CAUSING IRRITAION.INHALATION:NOT EXPECTED TO BE A RELEVANT ROUTE OF EXPOSURE; HIGH TEMPERATURE VAPORS IRRITATE

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RESPIRATORY TRACT. INGESTION:LOW LEVEL OF TOXICITY. CHRONIC: SKIN DISORDERS. DATA PER MSDS

SECTION X - Transportation Data

Container Quantity	10
Unit of Measure	OZF

SECTION XI - Site Specific/Reporting Information

Volatile Organic Compounds (P/G)	0
Volatile Organic Compounds (G/L)	0

SECTION XII - Ingredients/Identity Information

Ingredient #	01
Ingredient Name	CALCIUM SOAP
CAS Number	N/K
NIOSH Number	1002172CS
Proprietary	NO
Percent	N/K
OSHA PEL	NOT ESTABLISHED
ACGIH TLV	NOT ESTABLISHED
Recommended Limit	NOT ESTABLISHED
Ingredient #	02
Ingredient Name	MINERAL OIL
CAS Number	N/K
NIOSH Number	1003240MO
Proprietary	NO
Percent	N/K
OSHA PEL	NOT ESTABLISHED
ACGIH TLV	NOT ESTABLISHED
Recommended Limit	NOT ESTABLISHED
Ingredient #	03
Ingredient Name	ADDITIVES
CAS Number	UNKNOWN
NIOSH Number	1000144AD
Proprietary	NO
Percent	N/K
OSHA PEL	UNKNOWN
ACGIH TLV	UNKNOWN
Recommended Limit	NOT ESTABLISHED
Ingredient #	04
Ingredient Name	(ZNCPD) ZINC COMPOUND,(CONTAINING < 5% OF ZN)
CAS Number	N/K
NIOSH Number	1004580ZC

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Proprietary	NO
Percent	N/K
OSHA PEL	NOT ESTABLISHED
ACGIH TLV	NOT ESTABLISHED
Recommended Limit	NOT ESTABLISHED

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Material Safety Data Sheet

SECTION I - Material Identity
SECTION II - Manufacturer's Information
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SECTION IV - Fire and Explosion Hazard Data
SECTION V - Reactivity Data
SECTION VI - Health Hazard Data
SECTION VII - Precautions for Safe Handling and Use
SECTION VIII - Control Measures
SECTION IX - Label Data
SECTION X - Transportation Data
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SECTION XII - Ingredients/Identity Information

SECTION I - Material Identity

Item Name	
Part Number/Trade Name	LUBRIPLATE AIR TOOL LUBRICANT
National Stock Number	9150L400653F
CAGE Code	73219
Part Number Indicator	A
MSDS Number	184026
HAZ Code	B

SECTION II - Manufacturer's Information

Manufacturer Name	FISKE BROS REFINING CO
P.O. Box	N/K
Street	129 LOCKWOOD ST
City	NEWARK
State	NJ
Country	US
Zip Code	07105-4720
Emergency Phone	201-589-9150
Information Phone	201-589-9150

FJK000089

MSDS Preparer's Information

Street	129 LOCKWOOD ST
City	NEWARK

932110106

State	NJ
Zip Code	07105-4720
Date MSDS Prepared/Revised	01FEB95
Date of Technical Review	04APR96
Active Indicator	N

Alternate Vendors

Vendor #5 CAGE	BZBXP

SECTION III - Physical/Chemical Characteristics

Appearance/Odor	AMBER OIL W/SWEET ODOR
Boiling Point	>550F
Melting Point	LIQUID
Vapor Pressure	<5
Vapor Density	>5
Specific Gravity	0.88
Decomposition Temperature	N/K
Evaporation Rate	N/K
Solubility in Water	NEGLIGIBLE
Percent Volatiles by Volume	N/K
Chemical pH	N/K
Corrosion Rate	N/K
Container Pressure Code	4
Temperature Code	8
Product State Code	U

SECTION IV - Fire and Explosion Hazard Data

Flash Point Method	COC
Lower Explosion Limit	0.9
Upper Explosion Limit	7
Extinguishing Media	FOAM, DRY CHEMICAL, CO2, WATER SPRAY (FOG)
Special Fire Fighting Procedures	COOL EXPOSED CONTAINERS W/WATER. USE AIR-SUPPLIEDBREATHING EQUIPMENT FOR ENCLOSED/CONFINED SPACES
Unusual Fire/Explosion Hazards	DON'T CUT, DRILL, GRIND/WELD AS THEY MAY EXPLODE

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SECTION V - Reactivity Data

Stability	YES
Stability Conditions to Avoid	EXCESSIVE HEAT, SPARKS/OPEN FLAMES
Materials to Avoid	STRONG OXIDANTS, LIQUID CHLORINE, CONCENTRATED OXYGEN
Hazardous Decomposition Products	SULFUR DIOXIDE. IF INCOMPLETE COMBUSTION, CO2 & HYDROGEN CHLORIDE

Hazardous Polymerization	NO
Polymerization Conditions to Avoid	N/K

SECTION VI - Health Hazard Data

Route of Entry: Skin	NO
Route of Entry: Ingestion	NO
Route of Entry: Inhalation	NO
Health Hazards - Acute and Chronic	SKIN/EYES: PROLONGED/REPEATEDCONTACT MAY CAUSE IRRITATION. EXPOSURE TO LIQUIDS, VAPORS, MISTS & FUMES SHOULD BE MINIMIZED. PRODUCT HAS A LOW ORDER OF ACUTE ORAL TOXICITY
Carcinogenity: NTP	NO
Carcinogenity: IARC	NO
Carcinogenity: OSHA	NO
Explanation of Carcinogenity	NONE
Symptoms of Overexposure	IRRITATION
Medical Cond. Aggrevated by Exposure	N/K
Emergency/First Aid Procedures	EYES: FLUSH W/CLEAR WATER FOR 15 MINS. SKIN: WASHW/SOAP & WARM WATER. INHALATION: REMOVE TO FRESH AIR. INGESTION: DON'T INDUCE VOMITING. OBTAIN MEDICAL ATTENTION IN ALL CASES

SECTION VII - Precautions for Safe Handling and Use

Steps if Material Released/Spilled	HANDLE AS AN OIL SPILL. AVOID BREATHING VAPORS/MIST. USE ADEQUATE VENTILATION
Neutralizing Agent	N/K
Waste Disposal Method	DISPOSE OF CHEMICAL WASTE IAW/FEDERAL, STATE & LOCAL REGULATIONS
Handling and Storage Precautions	STORE AT TEMPS <100F. STORE IN A COOL, DRY AREA IN TIGHTLY CLOSED CONTAINERS. USE ADEQUATE VENTILATION. AVOID EXCESSIVEHEAT, SPARKS/OPEN FLAMES
Other Precautions	AVOID PROLONGED/REPEATED SKIN CONTACT/BREATHING OIL MIST. NORMAL HYGIENIC & SAFETY PRECAUTIONS SHOULD BE OBSERVED WHEN HANDLING CHEMICALS. DON'T STORE/MIX W/STRONG OXIDANTS. EMPTY CONTAINERS RETAIN RESIDUE

SECTION VIII - Control Measures

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Respiratory Protection	IF CONCENTRATED VAPORS ARE PRESENT & ADEQUATE VENTILATION IN UNAVAILABLE, USE PROPER RESPIRATOR FOR ORGANIC VAPORS

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Ventilation	LOCAL EXHAUST/MECHANICAL (GENERAL)
Protective Gloves	PLASTIC/RUBBER
Eye Protection	CHEMICAL SPLASH GOGGLES
Other Protective Equipment	AIR MONITORING SHOULD BE PERFORMED IF OPERATIONS CAUSE AIR CONCENTRATIONS APPROACHING PEL LIMITS

SECTION IX - Label Data

Protect Eye	NO
Protect Skin	NO
Protect Respiratory	NO
Chronic Indicator	UNKNOWN
Contact Code	UNKNOWN
Fire Code	UNKNOWN
Health Code	UNKNOWN
React Code	UNKNOWN

SECTION X - Transportation Data

Container Quantity	1
Unit of Measure	QT

SECTION XI - Site Specific/Reporting Information

Volatile Organic Compounds (P/G)	0
Volatile Organic Compounds (G/L)	0

SECTION XII - Ingredients/Identity Information

Ingredient #	1
Ingredient Name	O-DICHLOROBENZENE, 1,2-DICHLOROBENZENE (ORTHO)
CAS Number	95501
NIOSH Number	CZ4500000
Proprietary	NO
Percent	3
OSHA PEL	300 MG/CUM
ACGIH TLV	301 MG/CUM
Recommended Limit	50 PPM
Ingredient #	2
Ingredient Name	PETROLEUM LUBE OIL
CAS Number	1003
NIOSH Number	1010405LO
Proprietary	NO
Percent	0
OSHA PEL	N/K

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ACGIH TLV	N/K
Recommended Limit	N/K

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ANNUAL REPORT

by

Chief Engineer
S. A. LUBETKIN

to the

PASSAIC VALLEY SEWERAGE COMMISSIONERS

FJK000094

FOR THE YEAR

1973

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Violation and Elimination - Fair Lawn Water Pollution Control Facilities, 2-01 Saddle River Road, Fair Lawn, N.J.
Intermittent (M. Tomaro)

This activated sludge plant treats an average daily flow of 2.7 million gallons per day and discharges its chlorinated effluent to Saddle River, a tributary of the Passaic River. The sludge is digested and dried in lagoons. The licensed operator is Donald Eelman. The Commissioners monitor the discharge from this plant routinely.

In 1973 of 47 samples taken 6 were unsatisfactory as follows:

May 17, 1973: Sample had a slightly high C.O.D., turbidity and suspended solids. Upon reporting this to the Chief Operator, the inspector was informed that on the morning of May 17, two aeration tanks were being cleaned, and therefore some activated sludge was carried over to the effluent from the temporarily overloaded remaining units. Things were back to normal the following day.

September 12, 26, October 24, 31 and November 8, 1973: These samples, generally speaking had a slightly high turbidity, suspended solids & B.O.D. and was explained by a plant "upset". It is to be noted that the samples for the remainder of the year were satisfactory.

Violation and Elimination - Fiske Bros. Refining Co. 129 Lockwood Street, Newark, N.J.
February 7, 1973 (J.McLaughlin)

While making routine inspections of his district , Inspector J. McLaughlin saw the hose coupling strap from a Tank Truck break, releasing approximately 60-75 gallons of bright stock oil into Esther St. The tank truck was owned by Tank Truck Rentals of Croydon, Pa. and was on lease to Chemical Leaman Tank Lines, Inc. of Downingtown, Pa. making a delivery to Fiske Bros.

The driver notified his terminal manager in Pennsylvania while Inspector Mc Laughlin contacted Mr. Louis De Nicola the terminal manager for Chemical Leaman in Newark. Mr. Di Nicola contacted Sampson Tank Cleaning Co., Bayonne, to clean up the oil.

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Meanwhile Mr. Clifford Wolf, Supt. of Fiske Bros., directed two Fiske employees and the driver in preventing the oil from flowing into the catch basin at Lister and Esther Streets by spreading oil-dry over the area.

Violation and Elimination - Fiske Bros. (con't.)

Sampson Tank Cleaning Co., crew and equipment arrived at approximately 4:30 P.M. and completed the clean-up and removal at 5:30 P.M.

Violation and Elimination - Glamorene Products Corp. 175 Entin Rd., Clifton, N.J.
March 26, 1973 (F. Wendt)

At 11:30 A.M. on March 26, 1973, Mrs. Molnar of Rutherford , N.J. called P.V.S.C. and reported that a white discharge was comi from the Entin Storm Sewer.

Inspector Wendt was assigned and found that the Glamorene Products Corp., was the source of the pollution. Two cases of liquid detergent fell and broke during a delivery to this company. Company employees then hosed down the material into the storm sewer thence the Passaic River.

Mr. Noll, the Plant Manager,was warned that if there was a repetition of this type of accident, he should not wash it into the storm sewer but should apply an absorbent material or vacuum i up and wash it into the sanitary sewer.

Violation and Elimination - City of Hackensack, So. Summit Avenue Storm Sewer
May 17 - December 14, 1973 (J. Perrapato)

While tracing the oil in Millbank Brook back to its source, Mr. Lubetkin noticed a small flow from a storm drain on the Raywin Realty property, which appeared to come from South Summit Avenue, Hackensack. On May 17, 1973, a sample was taken and found to be polluting (very high fecal coliform count, high turbidity, suspended solids, and C.O.D.).

On May 24, 1973, Mr. Richard Galofaro, Sanitarian of the Borough of Lodi, wrote to the PVSC, stating that a joint inspection was conducted by the Lodi and Hackensack Health Departments concerning the sewage discharge into Lodi waterways. A dye test had proved negative, and further testing was to be done by the Hackensack Health Department. Mr. Galofaro requested a copy of the analysis, which was sent to him on June 5, 1973.

SDMS Document
93211

PRP CASES FOR THE LOWER PASSAIC RIVER STUDY AREA

PRP DATA EXTRACTION FORMS AND EVIDENCE CONCERNING:

FISKE BROTHERS REFINING CO.

PREPARED FOR:

LOWER PASSAIC RIVER STUDY AREA
COOPERATING PARTIES GROUP

SUBMITTED TO:
USEPA REGION II

DECEMBER 27, 2005

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Fiske Brothers Refining Co.

932110002

PRP CASES
FOR THE
LOWER PASSAIC RIVER STUDY AREA

FISKE BROTHERS REFINING CO.

INDEX OF EVIDENCE

Tab No.	Year	Day and Month	Description
1	1995-2005		NJDEP Waste Manifest Report
2	2002	3-Oct	Renewal Authorization to Discharge Stormwater under NJPDES General Permit NJ0088315
3	1999	10-Dec	Request for Authorization Form (RFA)
4	2000	5-Jan	Authorization to Discharge Stormwater under NJPDES General Permit No. NJ0088315
5	1999	19-Nov	Letter from NJDEP to Fiske Brothers regarding failure to submit a Discharge to Surface Water permit application
6	2000	28-Jun	Stormwater Pollution Prevention Plan (SPPP) Certification
7	1978	September	City of Newark, New Jersey Feasibility Study: Pollution Abatement Program
8	2005	7-Dec	D&B Report on Fiske Brothers Refining Co.
9	2005	7-Dec	New Jersey Trade and Manufacturer's Catalogs showing Lubriplate as a division of Fiske Brothers from 1950-1960
10	2003	14-Oct	World Wide Web article, "Success Stories: Fiske Brothers Refining Co."
11	Undated		Lubriplate Lubrication Date Book
12	Various		MSDSs for Fiske Brothers Products
13	1973		Annual Report to the Passaic Valley Sewerage Commision

NEW JERSEY DEPARTMENT OF ENVIRONMENTAL PROTECTION
DIVISION OF HAZARDOUS WASTE MANAGEMENT

WASTE MANIFESTS FROM 01/01/95 TO 05/23/05
FROM GENERATOR NJD002153070 TO SPECIFIED TSDF'S

GENERATOR	TSDF	MANIFEST	DATE SHIPPED	WASTE CODE	WASTE NAME	QUANTITY
FISKE BROTHERS REFINING CO. 129 LOCKWOOD ST. NEWARK , NJ NJD002153070	CYCLE CHEM INC 217 S FIRST ST ELIZABETH , NJ NJD002200046	NJA3083395	01/19/00	D002	CHARACTERISTIC OF CORROSIVITY	2000 P
				F003	NON HAL SOLV & STLBTM	60 G
		NJA3083400	01/19/00	D002	CHARACTERISTIC OF CORROSIVITY	110 G
				D001	CHARACTERISTIC OF IGNITABILITY	55 G

Div of Solid and Haz
FJK waste permits

Fiske Brothers

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NEW JERSEY DEPARTMENT OF ENVIRONMENTAL PROTECTION
DIVISION OF HAZARDOUS WASTE MANAGEMENT

WASTE MANIFESTS FROM 01/01/80 TO 12/31/94
FROM GENERATOR NJD002153070 TO SPECIFIED TSDF'S

GENERATOR	TSDF	MANIFEST	DATE SHIPPED	WASTE CODE	WASTE NAME	QUANTITY
FISKE BROTHERS REFINING CO. 129 LOCKWOOD ST. NEWARK , NJ NJD002153070	CITY DISPOSAL/ENVIRONMENTAL 1550 HARPER DETROIT , MI NJC876005257	MI01693100	08/14/90	X725	OIL SPILL CLEANUP MATERIAL	57450 P
		MI01703727	09/18/90	X725	OIL SPILL CLEANUP MATERIAL	11500 P

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State of New Jersey

James E. McGreevey
Governor

Department of Environmental Protection

Bradley M. Campbell
Commissioner

Bureau of Nonpoint Pollution Control
Division of Water Quality
P.O. Box 029 Trenton, NJ 08625-0029
Phone : 609-633-7021, 292-0407
Fax: 609-984-2147

10/02/2002

William Chappell
FISKE BROTHERS REFINING CO
129 LOCKWOOD ST

Newark, NJ 07105

Fiske Brothers
Bureau of Nonpoint Pollution Control

Re: 5G2 -General Permit Stormwater Basic **NJ0088315**
NJPDES: NJG0135992 PI ID #: 50467
FISKE BROTHERS REFINING CO
Newark, Essex

Dear William Chappell:

Your facility is currently authorized to discharge stormwater under General Permit NJPDES No. NJ0088315. The version of the general permit under which you previously were authorized has expired. However, this permit has been renewed until May 31, 2007. Please find enclosed your Renewal Authorization to Discharge Stormwater under NJPDES General Permit **NJ0088315** and a copy of that permit. All co-permittees will receive original Authorizations. One of these Authorization forms is requested to be LOCATED at the regulated facility at all times and be AVAILABLE for inspection by any authorized representative of the New Jersey Department of Environmental Protection. If you have designated an agent, it is your responsibility to notify your agent about this General Permit Authorization and its requirements.

Enclosed is the final General Permit NJ0088315. Please be advised that the renewed General Permit requires that all stormwater associated with industrial activities, including that discharged to groundwater, must meet the Best Management Practice of no exposure. You were advised of this new condition in the draft permit information you received as part of the permit renewal process. Please submit your certification, as described below, prior to the required deadline.

Also enclosed is an *ATTACHMENT D Annual Recertification* that must be submitted to the Bureau each year. You are required to annually review your facility and submit a certification attesting that the facility meets all the requirements of the permit. This form will be due in the calendar quarter in which the month of Attachment D – SPPP *Initial Implementation and Inspection Certification* falls. The due date will be a three month quarter as assigned on your authorization page (see "Annual Recertification Due" on your Authorization page).

Copies of the revised SPPP Guidance Manual and other forms including the *Annual Recertification Attachment D*, will available at the Department's web site: http://www.state.nj.us/dep/dwq/stormw.htm. If you do not have access to the web site please contact the Bureau of Nonpoint Pollution Control at the above address for a copy.

Should any information about your facility, i.e., mailing address, contact person, etc. change, please contact the Bureau for a Administrative Update Form. If your facility is sold, closing or moving its location please write the Bureau for instructions.

The Department appreciates your efforts toward accomplishing the goal of providing cleaner water for our State and looks forward to working together with you in the future. If you have any questions please contact the Bureau.

Sincerely,

Barry Chalofsky, P.P., Chief
Bureau of Nonpoint Pollution Control

Enclosures: (2)
Renewed Authorization to Discharge (ATD)
NJPDES General Permit No. **NJ0088315**

C: (w/ATD Form): NJDEP Water Compliance and Enforcement Region Office
Facility Owner (if applicable)
Debbie Esposti, BPM

New Jersey Department of Environmental Protection
Bureau of Nonpoint Pollution Control
Division of Water Quality
PO Box 029
Trenton, NJ 08625-0029
Phone: (609) 633-7021
Fax: (609) 984-2147

RENEWAL OF AUTHORIZATION TO DISCHARGE
5G2 -General Permit Stormwater Basic

Facility Name: FISKE BROTHERS REFINING CO

PI ID #: 50467

Facility Address:
129 LOCKWOOD ST
NEWARK, NJ 07105

NJPDES #: NJG0135992

SIC Code: 2992

Annual Recertification Due: Jan - Mar

Type of Activity: Stormwater Discharge General Permit Authorization Renewal

Owner:
FISKE BROTHERS REFINING CO
129 LOCKWOOD ST
NEWARK, NJ 07105

Operating Entity:
FISKE BROTHERS REFINING CO
129 LOCKWOOD ST
NEWARK, NJ 07105

Issuance Date:	Effective Date:	Expiration Date:
10/03/2002	06/01/2002	05/31/2007

Your Request for Authorization under NJPDES General Permit No. NJ0088315 has been approved by the New Jersey Department of Environmental Protection.

Date: 10/03/2002

Barry Chalofsky, P.P., Chief
Bureau of Nonpoint Pollution Control
Division of Water Quality
New Jersey Department of Environmental Protection

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New Jersey Department of Environmental Protection
Bureau of Nonpoint Pollution Control
PO Box 029
Trenton, N.J. 08625-0029

ATTACHMENT "D"

Stormwater Pollution Prevention Plan (SPPP)

Initial Implementation and Inspection Certification

Basic Industrial General Permit No. NJ0088315

(N.J.A.C. 7:14A-11 Appendix A)

RECEIVED JUL 12 2001 NJDEP DIVISION OF WATER QUALITY BUREAU OF NONPOINT POLLUTION CONTROL

RECEIVED JUL 12 2001 NJDEP DIVISION OF WATER QUALITY BUREAU OF NONPOINT POLLUTION CONTROL

SWG: A- 021737 # 50467 NJPDES Permit # NJ0135992

SUBMIT THIS FORM ONCE, AFTER SPPP IS IMPLEMENTED. FOR EXISTING FACILITIES, THE SPPP MUST BE IMPLEMENTED WITHIN 18 MONTHS OF AUTHORIZATION UNLESS THE DEPARTMENT GRANTS AN EXTENSION.

"I certify under penalty of law that this Stormwater Pollution Prevention Plan Implementation and Inspection Certification and all attached documents were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate this information. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering this information, the information in this Stormwater Pollution Prevention Plan Implementation and Inspection Certification and all attached documents is, to the best of my knowledge and belief, true, accurate and complete.

"I certify that the facility has been inspected to identify areas contributing to the stormwater discharge authorized under NJPDES permit No. NJ0088315 and to evaluate whether the stormwater pollution prevention plan (SPPP) prepared under that permit complies with part III.A. of that permit and is being properly implemented.

"I certify that the stormwater pollution prevention plan referred to in this Stormwater Pollution Prevention Plan Implementation and Inspection Certification has been and will continue to be fully implemented at this facility in accordance with the terms and conditions of part III of NJPDES Permit No. NJ0088315. I specifically certify that there is no exposure, during and after storm events, of industrial materials, machinery, waste products or other source materials located at the facility, to stormwater that is discharged to surface waters and regulated under that NJPDES permit (except for any incidents of non-compliance identified in the attached report). I also specifically certify that this facility does not generate and discharge, through storm sewers to surface waters, any domestic sewage, non-contact cooling water, or process waste water (including leachate and contact cooling water) other than stormwater, unless that discharge is authorized by another NJPDES permit or identified in an application (o request for authorization) submitted for another NJPDES permit.

"I also certify that this facility is not in violation of any conditions of NJPDES Permit No. NJ0088315, including requirements in part III of that permit for preparation and implementation of a stormwater pollution prevention plan, except for any incidents of noncompliance (which are noted in the attached report). For any incidents of noncompliance identified in the annual inspection (or made known to me during the course of the past year), I have attached a report identifying these

N.J.D.E.P. Bureau of Nonpoint Pollution Control

ANNUAL REPORT

Worksheet #13
Completed by: William H. Chappell
Title: Chief Lubrication Engineer
Date: June 29, 2001

Instructions: Summarize each annual inspection. Indicate whether the facility was in compliance with the SPPP and the conditions of this permit. In the case of noncompliance the report shall identify measures taken to remedy any noncompliance. This report must be signed and dated and kept with SPPP for five years.

We have conducted an annual inspection evaluating all areas that discharge stormwater authorized by this permit, including:

- the removal or covering of source material;
- areas where good housekeeping practices are used;
- activities for preventive maintenance;
- visual inspections for sources of pollution;
- structures for diverting stormwater; and
- training for stormwater pollution prevention team members.

Our facility has maintained each of the BMPs outlined in the SPPP. We have made necessary repairs or maintenance as needed. We will pursue more training for stormwater pollution prevention awareness by seeking seminars concerning said stormwater pollution prevention and permitting. The annual inspection determined that the SPPP has been properly implemented, and has eliminated exposure of source material to stormwater, and that no additional measures are required. Therefore, Fiske Brothers Refining Co. is in compliance with the SPPP and the conditions of the Basic Industrial Stormwater General Permit (NJ0088315)

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William H. Chappell
Signature

6/29/01
Date

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DEC 13 1999 12/21/99

Bureau of Nonpoint Pollution Control

Division of Water Quality

New Jersey Department of Environmental Protection

FOR STATE USE ONLY		
SWGA #	A-021737	
NJPDES #	NJ0135992	
Date Rec'd	12-21-99	
Amount Rec'd	$ 500.00	
	YES	NO
Check Rec'd	✓	
A/A Rec'd	✓	
SPPP Rec'd		✓
Cert. Signed		
Staff	Gaddis	

Request for Authorization (RFA) Form

NJPDES Basic Industrial Stormwater General Permit No. NJ0088315

(N.J.A.C. 7:14A-11 Appendix A)

Stormwater Discharge Associated with Industrial Activity

0714

Please read and follow all the instructions carefully (see attached instructions). Any omissions may delay your permit authorization issuance. **Sign and Date** where indicated. **Print or Type** all information.

1. Facility Information

A. Facility Name Fiske Brothers Refining Company

B. Location (number and street) 129 Lockwood Street

C. City or Town Newark D. County Essex

E. USEPA ID # (if assigned) NJD-002153070

F. Mailing Address 129 Lockwood Street

G. City or Town Newark

H. State & Zip Code New Jersey 07105-4782

I. SIC Code & Short Title 2992 Petroleum Products-Lubricating Oils & Greases

J. Contact Person & Telephone Number William Chappell

K. Parent Company Fiske Bros. Refining Co. Telephone # (973) 589-9150

Mailing Address 129 Lockwood Street

City or Town Newark

State New Jersey Zip Code 07105-4782

2. Property Owner (land)

A. Name Fiske Brothers Refining Co.

B. Permanent Legal Address 129 Lockwood Street

C. City or Town Newark D. State & Zip Code NJ 07105

E. Taxpayer Identification # or Social Security # 22-0913895

F. Owner Status (circle) 1. government 2. commercial 3. religious 4. charitable 5. public school

G. Telephone Number (973) 589-9150

FJK000008

RFA Certification

Attachment "A"

Basic Industrial Stormwater General Permit
NJPDES General Permit No. NJ0088315

"I certify under penalty of law that this Request for Authorization and all attached documents were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate and complete. As far as I know, none of the stormwater discharges for which this Request for Authorization is submitted are excluded from authorization by part I.B of NJPDES Permit No. NJ0088315.

"I am aware that pursuant to the Water Pollution Control Act, N.J.S.A. 58:10A-1 et seq., there are significant civil and criminal penalties for making a false statement, representation or certification in any application, record, or other document filed or required to be maintained under that Act, including fines and/or imprisonment."

WHO MUST SIGN?

FOR A CORPORATION: a "responsible corporate officer" or duly authorized representative. A "responsible corporate officer" is (i) a president, secretary, treasurer, or vice-president of the corporation in charge of a principal business function, or any other person who performs similar policy or decision-making functions for the corporation; or (ii) the manager of one or more manufacturing, production, or operating facilities employing more than 250 persons or having gross annual sales or expenditures exceeding $25 million (in second-quarter 1980 dollars), if authority to sign documents has been assigned or delegated to the manager in accordance with corporate procedures.

FOR A PARTNERSHIP OR SOLE PROPRIETORSHIP: a general partner or the proprietor, respectively, or duly authorized representative.

FOR A MUNICIPALITY, STATE, FEDERAL OR OTHER PUBLIC AGENCY: either a principal executive officer or ranking elected official, or duly authorized representative.

A "responsible corporate officer", general partner, proprietor, principal executive officer of a public agency, or ranking elected official may assign his or her signatory authority for this Certification to a duly authorized representative, which is a named person or generic position (e.g., plant manager, superintendent, plant engineer, operations manager, etc.) having overall responsibility for facility operation or the permittee's environmental matters, by submitting a letter to the Bureau of Permit Management stating said authority and naming the person or position.

Facility Name: Fiske Brothers Refining Company
(print)

(print, if applicable, name of corporation, partnership, or public agency submitting this certification)

(signature) — Richard T. McCluskey (print name)

President & CEO (title) — December 10, 1999 (date)

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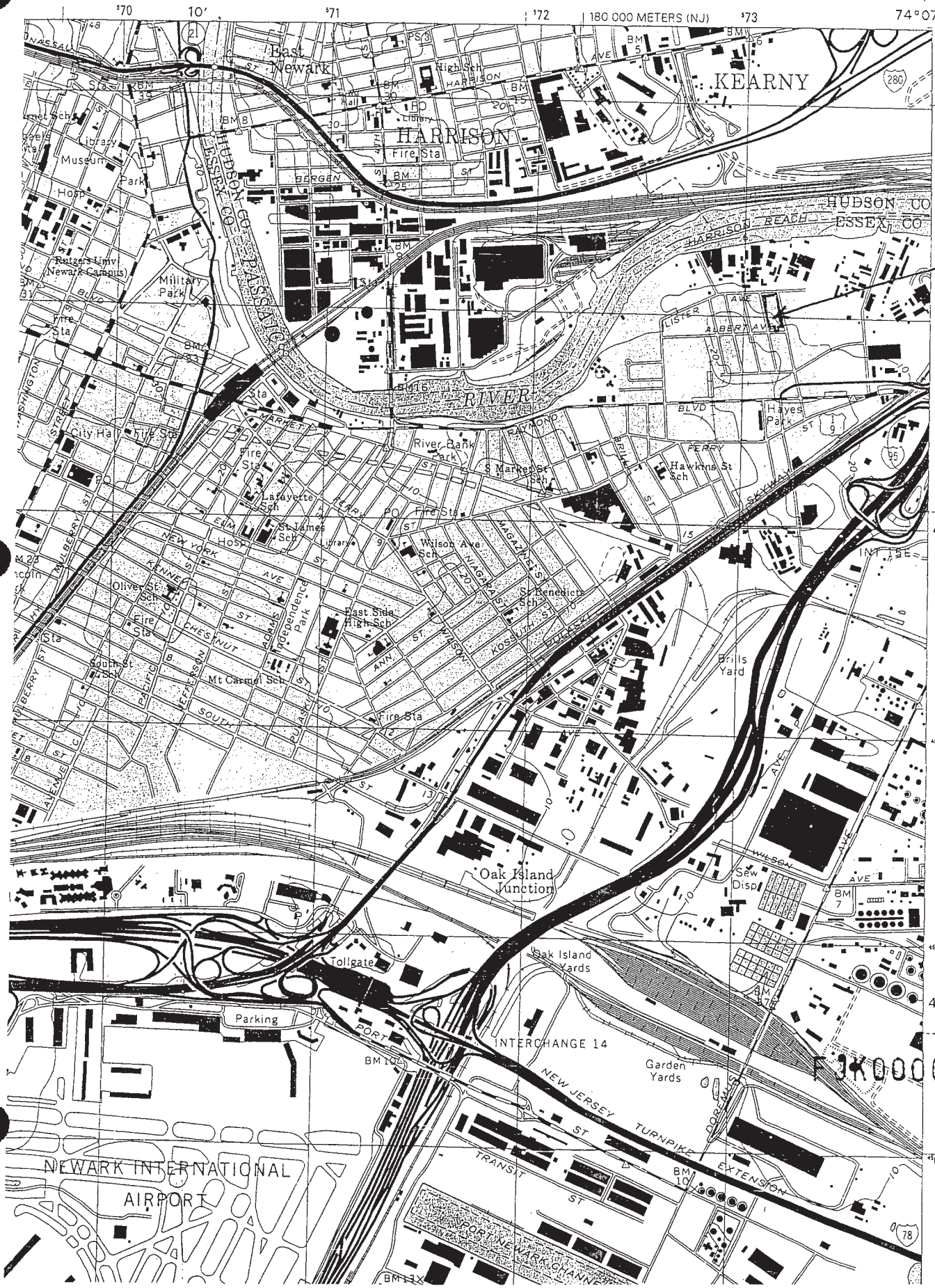
ELIZABETH QUADRANGLE
NEW JERSEY-NEW YORK
7.5-MINUTE SERIES (TOPOGRAPHIC)



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State of New Jersey

Christine Todd Whitman
Governor

Department of Environmental Protection

Robert C. Shinn, Jr.
Commissioner

Bureau of Nonpoint Pollution Control
401 East State Street
P.O. Box 029
Trenton, NJ 08625-0029
Tel. 609-633-7021 Fax: 609-984-2147

CERTIFIED MAIL
RETURN RECEIPT REQUESTED

To: FISKE BROTHERS REFINING COMPANY

1/5/00

Please find enclosed your Authorization to Discharge Stormwater under NJPDES General Permit N NJ0088315 and a copy of that permit. All co-permittees will receive original Authorizations. One of these Authorization forms is requested to be LOCATED at the regulated facility at all times and be AVAILABLE for inspection by any authorized representative of the New Jersey Department of Environmental Protection. If you have designated an agent, *it is your responsibility to notify your agent about this General Permit Authorization* and its requirements.
Enclosed are your Stormwater Pollution Prevention Plan (SPPP) Certifications (Attachments C and D) and your SPPP Guidance Manual. Below is a brief description of each:

The SPPP GUIDANCE MANUAL is a planning aid for use in developing your Stormwater Pollution Prevention Plan.

ATTACHMENT C (SPPP Preparation Certification) certifies that the Plan has been prepared in accordance with the permit. The permit specifies that this Certification must be signed and submitted to the Bureau of Nonpoint Pollution Control (Bureau) six (6) months from the date of this letter.

ATTACHMENT D (SPPP Initial Implementation and Inspection Certification) certifies that the Plan has been implemented and that you have inspected the facility for compliance with the Plan and the permit. The permit specifies that this Certification must be signed and submitted to the Bureau within eighteen (18) months from the date of this letter. (You will later receive ATTACHMENT D Annual Recertifications that must be submitted to the Bureau in subsequent years.)

Should any information about your facility, i.e., mailing address, contact person, etc. change, please contact the Bureau for a Standard Change Form. If your facility is sold, closing or moving it's location, please write the Bureau for instructions.

The Department appreciates your efforts toward accomplishing the goal of providing cleaner water for our State and looks forward to working together with you in the future. If you have any questions please contact the Bureau.

Sincerely,

Barry Chalofsky

Barry Chalofsky, P.P., Chief
Bureau of Nonpoint Pollution Control

Enclosures: (5)
Authorization to Discharge (ATD) Form
NJPDES General Permit No NJ0088315
Attachments C and D
SPPP Guidance Manual

c (w/ATD Form): NJDEP Water Compliance
and Enforcement Region Office
Facility Owner (if applicable)
BPM

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Recycled Paper

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New Jersey Department of Environmental Protection
Bureau of Nonpoint Pollution Control
Division of Water Quality
401 East State Street
P.O. Box 029
Trenton, NJ 08625-0029
Tel. 609-633-7021 or 292-0407

AUTHORIZATION TO DISCHARGE STORMWATER TO SURFACE WATER

Facility Name **FISKE BROTHERS REFINING COMPANY** SWG **A-021737**

NJ0135992

Facility Address **129 LOCKWOOD STREET**

NEWARK, NJ

SIC Code: **2992**

Type of Industrial Activity **LUBRICATING OILS AND GREA**

	Owner	Operator
Name:	**FISKE BROTHERS REFINING CO.**	**FISKE BROTHERS REFINING COMPANY**
	129 LOCKWOOD STREET	**129 LOCKWOOD STREET**
	NEWARK, NJ 07105	**NEWARK, NJ 07105**

EFFECTIVE DATE **1/5/00** EXPIRATION DATE: **1/31/02**

Your Request for Authorization under NJPDES General Permit N(**NJ0088315** has been approved by the New Jersey Department of Environmental Protection.

Barry Chalofsky, P.P., Chief
Bureau of Nonpoint Pollution Control
New Jersey Department of Environmental Protection

Date: **1/5/00**

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A-02737

NJ 0135992

State of New Jersey

Christine Todd Whitman
Governor

Department of Environmental Protection
Northern Bureau of Water Compliance and Enforcement
1259 Route 46, Building 2
Parsippany, New Jersey 07054-4191
Telephone (973) 299-7592 Fax (973) 299-7719

Robert C. Shinn, Jr.
Commissioner

IN 2/21/99

November 19, 1999

CERTIFIED MAIL
RETURN RECEIPT REQUESTED

RFA INE 12/19
CF RFA 12/20

Mr. William Chappell, Chief Lubricating Engineer
Fiske Brothers Refinery company
129 Lockwood St.
Newark, N.J. 07105

Re: Unpermitted Discharge to Surface Water (Passaic River)
Fiske Brothers Refinery Company
Newark/Essex County

Dear Mr. Chappell:

A representative of the New Jersey Department of Environmental Protection ("NJDEP" or "Department") conducted a New Jersey Pollution Discharge Elimination System (NJPDES) Compliance Evaluation and Assistance Inspection at the Fiske Brothers Refinery Company (Fiske) industrial facility at 129 Lockwood Street, Newark, New Jersey 07105 on November 15 and 16, 1999.

A Notice of Violation (NOV) was issued to Fiske for the following violation:

The facility has not submitted a Discharge to Surface Water (DSW) permit application to the Bureau of Nonpoint Pollution Control (BNPC) as required under the Industrial General Stormwater Permitting Program.

You are required to take corrective measures. Fiske's industrial activity is in the proximity of storm drains discharging to the Passaic River. Such a discharge is governed by the New Jersey Water Pollution Control Act N.J.S.A.58:10A-1 *et seq.*, and the regulations promulgated thereunder N.J.A.C.7:14A-11 *et seq.* Your facility, with SIC Code 2992, should be regulated under category (ii) of the General Stormwater Permit.

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You are therefore required to submit, an application for the General Stormwater Permit pursuant to N.J.A.C.7:14A-11.5(b) as defined under N.J.A.C.7:14A-1.2 to the Bureau of Non-Point Pollution Control, 401 East State Street, Trenton, New Jersey 08625, with a copy sent to this Bureau, within thirty (30) calendar days of receipt of this letter. Permit application information and forms may be obtained by contacting the Bureau of Nonpoint Pollution Control at (609) 633-7021.

Please direct any questions on this correspondence to this writer by phone at (973) 299-7592, or by letter through this Bureau. Thank you for your continued cooperation in the prevention and control of water pollution in New Jersey.

Very truly yours,

Theophilus Ashie
Principal Environmental Specialist
Northern Bureau of
Water Compliance and Enforcement

E29:G26

Enclosure

c: Janet Jessel, Supervisor, BNPC
City of Newark Health Department
Joseph M. Mikulka, Bureau Chief, NBWCE

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New Jersey Department of Environmental Protection
Bureau of Nonpoint Pollution Control
PO Box 029
Trenton, N.J. 08625-0029

ATTACHMENT "C"

Stormwater Pollution Prevention Plan (SPPP) Certification

Basic Industrial General Permit No. NJ0088315

(N.J.A.C. 7:14A-11 Appendix A)

SWG: A- 021737 NJPDES Permit # NJ 0135992

THIS CERTIFICATION FORM IS TO BE SUBMITTED AFTER YOU HAVE PREPARED YOUR FACILITY'S SPPP. FOR EXISTING FACILITIES, THE SPPP MUST BE PREPARED WITHIN 6 MONTHS OF THE GENERAL PERMIT AUTHORIZATION. THIS ATTACHMENT "C" CERTIFIES THAT THE SPPP HAS BEEN PREPARED IN ACCORDANCE WITH THE GENERAL PERMIT CONDITIONS.

"I certify under penalty of law that I have signed a stormwater pollution prevention plan (SPPP), and that if this plan is fully implemented, there will be no exposure, during and after storm events, of industrial materials, machinery, waste products or other source materials located at the facility, to stormwater that is discharged to surface waters and regulated under NJPDES Permit No. NJ0088315 (except for unintentional and temporary exposure because of an event beyond the reasonable control of the permittee). I further certify that if any part of this stormwater pollution prevention plan requires the consent of the owner(s) of or another operating entity for the facility, that consent has been obtained.

"I further certify that this Stormwater Pollution Prevention Plan Preparation Certification, all attached documents, and stormwater pollution prevention plan were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate this information. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering this information, the information in this Stormwater Pollution Prevention Plan Preparation Certification, all attached documents, and stormwater pollution prevention plan is, to the best of my knowledge and belief, true, accurate and complete.

"I certify that the stormwater pollution prevention plan referred to in this Stormwater Pollution Prevention Plan Preparation Certification has been signed and is being retained at the facility in accordance with part III.A of NJPDES Permit No. NJ0088315, and that the permittee intends that this stormwater pollution prevention plan will be fully implemented at the facility in accordance with the terms and conditions of that permit. I am aware that pursuant to the Water Pollution Control Act, N.J.S.A. 58:10A-1 et seq., there are significant civil and criminal penalties for making a false statement, representation, or certification in any application, record, or other document filed or required to be maintained under that Act, including fines and/or imprisonment."

Any changes to the facility data previously submitted require a Standard Change Form (SCF) to be submitted along with this Certification. This will facilitate file maintenance. Please contact the Bureau at (609) 633-7021 for copies of this form. Do not send the actual SPPP with this submission. The plan and a copy of this Certification are to remain on-site available for inspection.

WHO MUST SIGN?

FOR A CORPORATION: a "responsible corporate officer" or duly authorized representative. A "responsible corporate officer" is (i) a president, secretary, treasurer, or vice-president of the corporation in charge of a principal business function, or any other person who performs similar policy or decision-making functions for the corporation; or (ii) the manager of one or more manufacturing, production, or operating facilities employing more than 250 persons or having gross annual sales or expenditures exceeding $25 million (in second-quarter 1980 dollars), if authority to sign documents has been assigned or delegated to the manager in accordance with corporate procedures.

FOR A PARTNERSHIP OR SOLE PROPRIETORSHIP: a general partner or the proprietor, respectively, or duly authorized representative.

FOR A MUNICIPALITY, STATE, FEDERAL OR OTHER PUBLIC AGENCY: either a principal executive officer or ranking elected official, or duly authorized representative.

A "responsible corporate officer", general partner, proprietor, principal executive officer of a public agency, or ranking elected official may assign his or her signatory authority for this Certification to a duly authorized representative, which is a named person or generic position (e.g., plant manager, superintendent, plant engineer, operations manager, etc.) having overall responsibility for facility operation or the permittee's environmental matters, by submitting a letter to the Bureau of Nonpoint Pollution Control stating said authority and naming the person or position.

Whenever there are two or more permittees for the facility, all of those permittees shall jointly submit this Certification, unless permittees received authorization on different dates and this Certification is therefore due from them at different dates.

Facility Name: Fiske Brothers Refining Co. SWG: A - 021737

NJPDES # NJ 0135992

Fiske Brothers Refining Company
(print, if applicable, name of corporation, partnership, or public agency submitting this Certification)

(signature)	(date)	(print name)
Richard T. McCluskey	6/28/00	Richard T. McCluskey

If you have any questions regarding this Attachment C or any other stormwater related questions, please call a member of the Bureau of Nonpoint Pollution Control staff at (609) 633-7021.
Attachment C shall be submitted to the letterhead address on the front of this Certification.

ATTC-5/5/97

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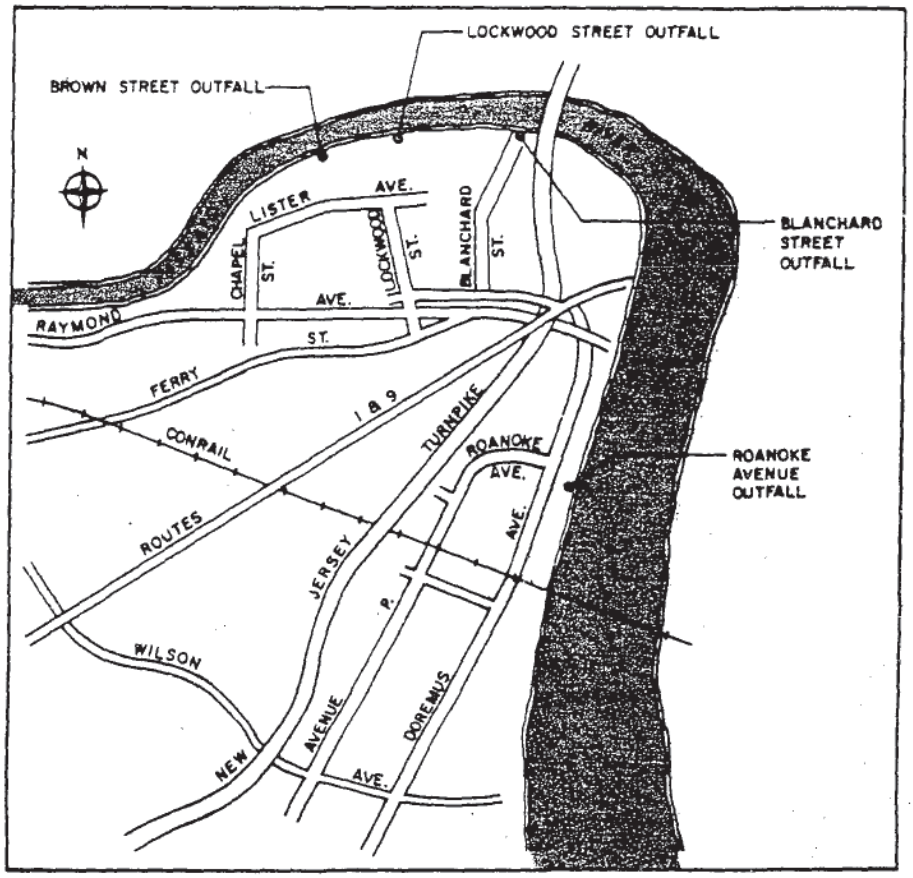
City of Newark, New Jersey

Feasibility Study

POLLUTION ABATEMENT PROGRAM



Clinton Bogert Associates
Consulting Engineers

September, 1978
Revised January, 1979

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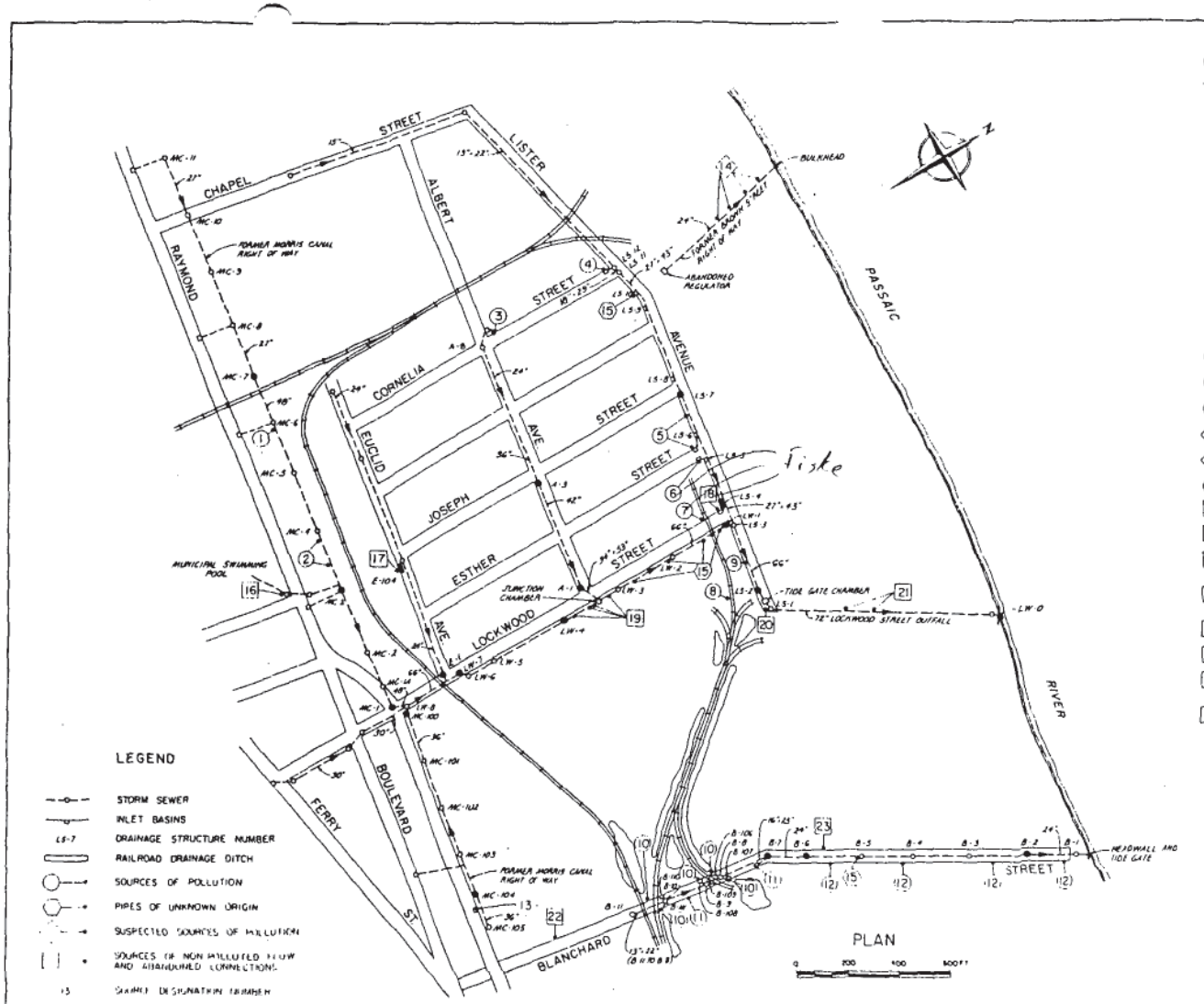

DESIGNATION NUMBER	SOURCE DESCRIPTION
1	INTERMITTENT DUMPING OF PAINT INTO INLET AT ASSOCIATED AUTO BODY AND TRUCKS INC.
2	CAR WASH DRAINS AT SUNOCO STATION CONNECTED TO STORM SEWER.
3	INTERMITTENT, LOW VOLUME DISCHARGE OF OIL AND WATER ENTERING INLET FROM CELLOMER CORP.
4	CONTINUOUS FLOW OF ORANGE VISCOUS CHEMICALS ENTERING INLET FROM CELLOMER CORP.
5	CONTINUOUS FLOW OF BLACK OILY CHEMICALS ENTERING INLETS FROM B-LINE TRUCKING COMPANY.
6	INTERMITTENT, LOW VOLUME DISCHARGE OF OIL AND WATER ENTERING INLET FROM FISKE BROTHERS REFINING COMPANY.
7	INTERMITTENT DISCHARGE OF BLACK OILY CHEMICALS ENTERING INLET FROM FISKE BROTHERS REFINING COMPANY RAILROAD SIDING.
8	CHEMICAL SPILLAGE AT ATLAS REFINERY INC. RAILROAD SIDING CONTAMINATING GROUND AND ENTERING RAILROAD DRAINAGE DITCHES DURING WET WEATHER.
9	RAILROAD DRAINS AND OIL SEPARATOR AT ATLAS REFINERY INC. CONNECTED TO STORM SEWER.
10	INTERMITTENT FLOW OF WATER AND CHEMICALS ENTERING INLETS FROM RAILROAD DRAINAGE DITCHES.
11	FREQUENT OVERFLOW OF SEWAGE FROM SANITARY MANHOLES ENTERING INLETS.
12	OCCASIONAL OVERFLOW OF SEWAGE FROM SANITARY MANHOLES ENTERING INLETS.
13	CONTINUOUS DISCHARGE FROM NEWARK BOXBOARD COMPANY.
14	INLETS AND DRAINS AT SHERWIN WILLIAMS COMPANY CONNECTED TO STORM SEWER.
15	PIPES OF UNKNOWN ORIGIN.
16	CONTINUOUS FLOW FROM MUNICIPAL SWIMMING POOL (SEASONAL).
17	CONTINUOUS FLOW OF COOLING WATER ENTERING INLET FROM REDDAWAY MANUFACTURING COMPANY.
18	INTERMITTENT DISCHARGE OF COOLING WATER ENTERING INLET FROM FISKE BROTHERS REFINING COMPANY.
19	ROOF DRAIN CONNECTIONS FROM THE MESSINGER WAREHOUSE AND TRUCKING COMPANY AND ABANDONED INLET CONNECTION.
20	ABANDONED RAILROAD DRAIN CONNECTED TO MANHOLE LS-1
21	ROOF DRAIN CONNECTIONS FROM THE BENJAMIN MOORE COMPANY.
22	CONTINUOUS, LOW VOLUME DISCHARGE OF COOLING WATER ENTERING GUTTER FROM NEWARK BOXBOARD COMPANY.
23	INTERMITTENT DISCHARGE OF GROUNDWATER ENTERING GUTTER FROM SUMP PUMP AT FAIRMOUNT CHEMICAL COMPANY.

NEWARK POLLUTION ABATEMENT FEASIBILITY STUDY

SOURCES OF POLLUTION IN STORM SEWER SYSTEMS ON BLANCHARD, LOCKWOOD AND BROWN STREETS

CLINTON BOGERT ASSOCIATES
CONSULTING ENGINEERS

PLATE 2

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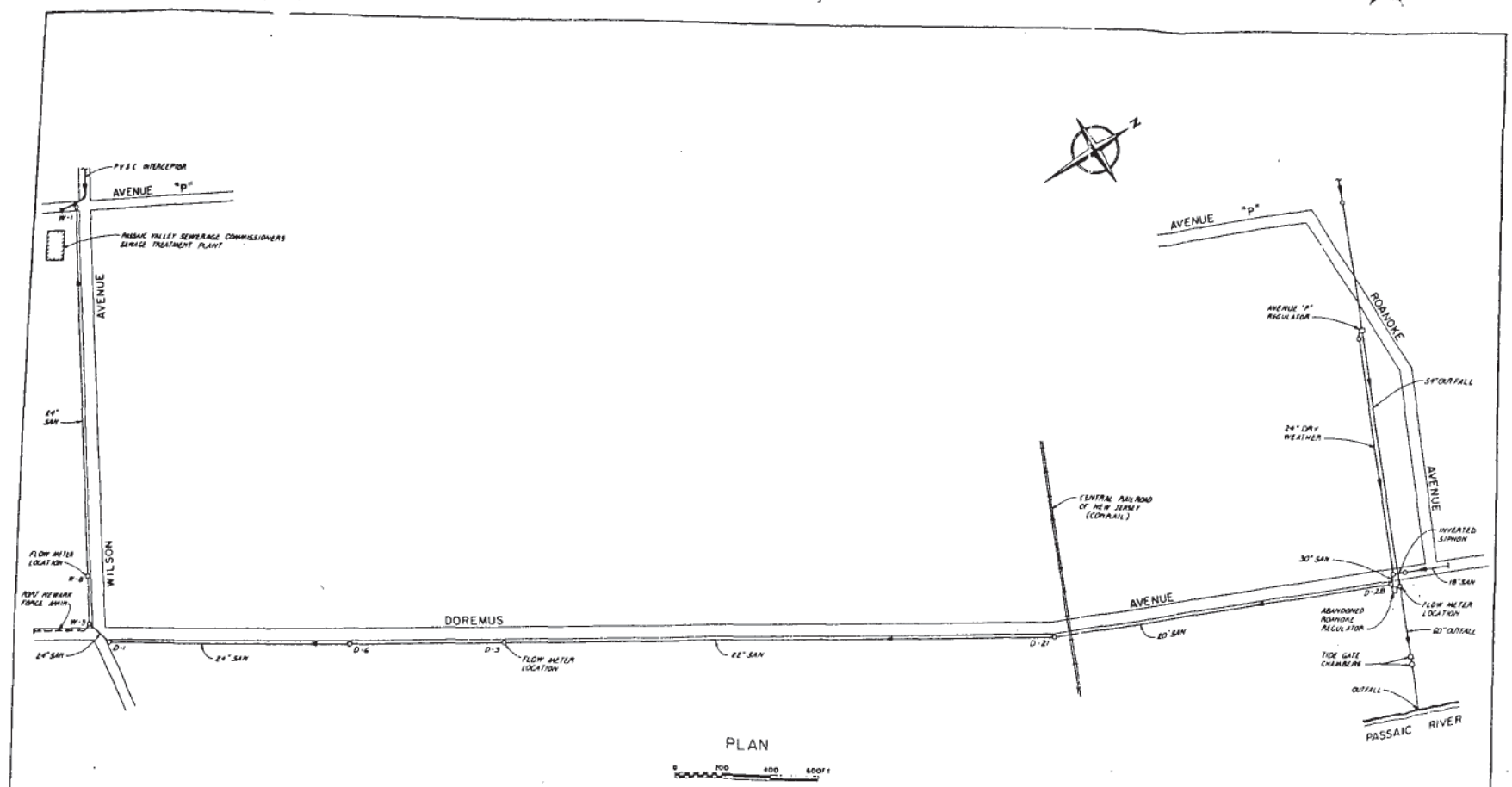

NEWARK POLLUTION ABATEMENT FEASIBILITY STUDY

SANITARY AND COMBINED SEWER CONFIGURATIONS ON ROANOKE, DOREMUS AND WILSON AVENUES

CLINTON BOGERT ASSOCIATES
CONSULTING ENGINEERS

PLATE 1

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CLINTON BOGERT ASSOCIATES

PARTNERS
IVAN L. BOGERT
HERBERT L. KAUFMAN

PRINCIPAL ASSOCIATES
WAYNE EAKINS
JOHN H. SCARING

ASSOCIATES
JOHANNES DEWAAL
FRANCIS J. DOBROWOLSKI
IGNAZ POTTENBUCHER
DANIEL S. GREENE
HERBERT LANDESMAN
UMBERTO A. MILLETARI
WILLIAM WHEELER

CONSULTING ENGINEERS

2125 CENTER AVENUE • FORT LEE, NEW JERSEY 07024
(201) 944-1676 • CABLE: BOGERTENG FORTLEENJ

January 24, 1979

Honorable Kenneth A. Gibson, Mayor
City of Newark
City Hall
920 Broad Street
Newark, New Jersey 07102

Re: Pollution Abatement

Dear Mayor Gibson:

In accordance with our contract dated February 15, 1978, submitted herewith is our report on the sources of pollution discharging to the lower Passaic River during dry weather from the Roanoke Avenue combined sewer system and the Blanchard, Lockwood, and Brown Street storm sewer systems. Each system is discussed in a separate section which contains:

(1) A description of the existing sewers.
(2) Findings of the physical inspection.
(3) Conclusions and recommendations applicable to that system.

Appropriate additional items are included as follows:

(1) For the Roanoke Avenue combined sewer system (Section III), a hydraulic analysis is presented. Significant conclusions are:

(a) all dry weather overflows may not be eliminated by rehabilitation of the existing system alone; but either flow routing, using storage available in the existing sewers, or increased interceptor capacity is required; and,

(b) a faulty regulator results in all sewage flows discharging untreated to the Passaic River.

(2) For the Blanchard Street storm sewer (Section IV), the results of dry weather flow sampling and gauging, smoke testing and T.V. inspection are presented. Significant conclusions are the need to:

(a) replace about 1,300 feet of existing 24" storm sewer which appears in danger of collapse,

(b) improve housekeeping around industrial railroad sidings, and,

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Honorable Kenneth A. Gibson, Mayor
City of Newark
City Hall
920 Broad Street
Newark, New Jersey 07102

CONSULTING ENGINEERS

We would be pleased to meet with you to review any matters contained herein. We wish to express our appreciation of the assistance given us by members of your staff, particularly Mr. Robert Benz, in carrying forward this work.

Very truly yours,

CLINTON BOGERT ASSOCIATES

Herbert L. Kaufman

Herbert L. Kaufman
P.E., N.J. Lic. No. 13647

HLK:mmb
Enclosure

Table of Contents

Page No.

Letter of Transmittal

I. Introduction..... 1

II. Scope of Work..... 3

III. Roanoke, Doremus, and Wilson Avenue Sewers..... 4
- A. Existing Sewers..... 4
- B. Physical Inspection Findings..... 5
  - 1. Avenue "P" Regulator and Roanoke Outfall Sewer..... 5
  - 2. Roanoke Avenue Sanitary Sewer..... 6
  - 3. Doremus Avenue Interceptor..... 6
  - 4. Wilson Avenue Interceptor..... 7
  - 5. Roanoke Avenue Regulator..... 7
- C. Hydraulic Analysis..... 8
  - 1. Flow Measurement Methods..... 8
  - 2. Observed Flow Rates..... 8
  - 3. Diversion of Roanoke Flow to PVSC Interceptor.....10
  - 4. Diversion Works.....14
- D. Conclusions and Recommendations.....17

IV. Blanchard Street.....20
- A. Physical Inspection Findings.....20
- B. Dry Weather Sampling and Flow Rates.....23
- C. Smoke Testing.....24
- D. Television Inspection.....25
- E. Conclusions and Recommendations.....26

V. Lockwood Street Outfall.....28
- A. Physical Inspection Findings.....28
  - 1. Lister Avenue Sewer.....28
  - 2. Morris Canal Sewers.....29
  - 3. Euclid Avenue Sewer.....29
  - 4. Albert Avenue Sewer.....30
  - 5. Lockwood Street Sewer.....30
  - 6. Lister Avenue Tide Gate.....30
  - 7. Lockwood Street Outfall.....31
- B. Dry Weather Flow Sampling and Flow Monitoring.....32
- C. Smoke Testing.....34
- D. Television Inspection.....35
- E. Conclusions and Recommendations.....38

(continued)

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Table of Contents
(continued)

Page No.

VI. Brown Street.....41
A. Configuration.....41
B. Physical Inspection Findings.....42
C. Dry Weather Effluent Sampling.....44
D. Conclusions and Recommendations.....45

VII. General Recommendations.....46
VIII. Appendices Following Text
A. Analytical Test Results
B. Letter From Robinson Pipe Cleaning Company

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ILLUSTRATIONS
(Following Appendices)

A. Plate 1 - Sanitary and Combined Sewer Configurations on Roanoke, Doremus and Wilson Avenues

B. Plate 2 - Sources of Pollution in Storm Sewer Systems on Blanchard, Lockwood and Brown Streets

C. Plate 3 - Diurnal Sewage Flow Patterns, Roanoke Avenue Outfall Sewer

D. Plate 4 - Diurnal Sewage Flow Patterns, Roanoke Avenue Outfall Sewer

E. Plate 5 - Diurnal Sewage Flow Patterns, Doremus Avenue Interceptor

F. Plate 6 - Diurnal Sewage Flow Patterns, Doremus Avenue Interceptor

G. Plate 7 - Diurnal Sewage Flow Patterns, Wilson Avenue Interceptor

H. Plate 8 - Diurnal Sewage Flow Patterns, Wilson Avenue Interceptor

I. Plate 9 - Flow Rates at the Lister Avenue Tide Gate Chamber

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IV. Blanchard Street

A. Physical Inspection Findings

Blanchard Street is served by separate storm and sanitary sewers. The 24-inch storm sewer (see Plate 2), constructed in 1917, discharges to the Passaic River. In 1970, the storm sewer was extended and the sanitary sewer was rebuilt. The sanitary sewer connects to a trunk sewer in Raymond Boulevard. The sanitary sewer is clogged by grease, tallow, paper and black oily waste. Several sanitary manholes were observed to surcharge and overflow into the street. These overflows usually occurred between 11:00 a.m. and 3:00 p.m. on weekdays. The frequency of overflow varies depending on industrial discharge rates. It does not appear to be related to rainfall events. Overflows were observed at least once a week and were noted on ten consecutive weekdays in April 1978. Intermittent overflows may have occurred during the last few years. These sanitary overflows are a major source of pollutants in the Blanchard Street storm sewer. City forces had been cleaning the Blanchard Street sanitary sewer when backups and overflows were reported. Equipment breakdowns and manpower shortages caused a suspension of cleaning operations in 1978.

Prior to cleaning, the storm sewer contained between 1.0 and 1.5 feet of primarily granular sediment mixed with black oil. The oil, which comes from the overflowing sanitary sewer, coats the inside of the pipes and manholes. Several inlets were filled with debris and sediment. The tide gate is mounted on a headwall on the river bank. The gate was being held open by sediment and debris during the first field inspection. The gate appeared to be fully operational after City personnel removed the sediment in April 1978. In subsequent inspections floating debris had lodged again under the gate indicating the need for frequent maintenance. A continuous waste

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discharge was noted. Dry weather flow rates, varying between 10,000 gpd and 100,000 gpd were estimated using depth measurements. The source of this flow appears to be groundwater. Dry weather flow was observed above manhole B-7 only when the sanitary sewer was overflowing or the drainage ditches along the Conrail industrial spurs were flooded.

Inlets B-106, B-107, B-108, B-109, B-110 and B-111 receive flow from the railroad spurs and sidings. The ditches along these tracks drain wet lands which were observed to contribute continuous flow for up to two weeks during wet periods. Chemical spillage was observed on the tracks and in the adjacent ditches. The source of the chemicals appears to be leakage from railroad tank cars. No leaking cars were observed, however. Major spills were noted from the Atlas Refinery Inc. railroad siding. Rain washes some of this spillage through the drainage ditches and railroad ballast into the Blanchard Street storm inlets. Since no leaking cars were found on the Conrail spurs, it is not possible to link other specific industries to the spillage. Valves may not always be closed when the cars are unloaded and chemicals may drip out while the cars are standing on the spurs in a totally random pattern. The Fairmount Chemical Company, the Benjamin Moore Company, Atlas Refinery Inc, and the Fiske Brothers Refining Company all receive tank cars through this railroad spur.

Four pipes were observed along the railroad tracks west of Blanchard Street. Two of the pipes drain the Delissa Pallet storage area and are not sources of pollution. The other two are filled with earth and appear to be old railroad culverts. Railroad drainage ditches are connected to inlets B-106 and B-108 by pipes. The pipe at B-108 is clogged with earth; this causes partial flooding of the siding during rainfall events. Leaks were found in the walls and under the frames of inlet B-106 and B-107 when the ground was saturated. The sanitary sewer is adjacent to inlet B-107 at an elevation lower than the leaks observed. The inlet was inspected in dry

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V. Lockwood Street Outfall

A. Physical Inspection Findings

The storm sewers in Lockwood Street, Lister Avenue, Chapel Street, Albert Avenue, Euclid Avenue and the Morris Canal Right-of-Way all drain through the Lockwood Street outfall (see Plate 2). Drainage from parts of Raymond Boulevard, Ferry Street, and the Pulaski Skyway ramp are also connected to the Lockwood Street system. Separate sanitary sewers serve the entire area. All storm manholes and inlets in the study area were inspected. The limits of tidal flow were identified and all sources of dry weather flow were isolated. Chemical spills at industrial facilities were noted. The Morris Canal storm sewer west of Lockwood Street (LW-8 to MC-11) was lamped.

(1) Lister Avenue Sewer

The manholes, inlets and pipes on Lister Avenue were coated with a black oily material. Sediment depth varied between 0.5 and 1.5 feet. The source of the oil was spillage at the B-Line Trucking Company. Tank trucks are allowed to drain while parked at this facility. Black oily chemicals flow into inlets on Lister Avenue and Esther Street. The flow into Esther Street is continuous and the curb has been broken out to facilitate it.

A continuous flow of viscous orange chemicals was observed entering an inlet on Cornelia Street. This material came from leaking drums stored on the Cellomer Corporation property. These chemicals were entering the Lister Avenue storm sewer. Intermittent spillage of black oily chemicals was noted at the Fiske Brothers Refining Company railroad siding and a very small volume of water and oil from that industry was being discharged into Esther Street. Both flows

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were entering the Lister Avenue storm sewer. A cooling water discharge pipe from Fiske Borthers was found at the inlet on the southwest corner of Lockwood Street and Lister Avenue. A 2-inch ± connection was found entering inlet LS-10. Because of its diameter, it is improbable that this line contains wastes. It was not flowing when inspected. The only building near LS-10 is occupied by the State Produce Company. No dry weather flow was observed upstream of manhole LS-12 and no sources of pollution are suspected above that point.

(2) Morris Canal Sewers

Continuous flow was observed in the Morris Canal storm sewers east and west of Lockwood Street. The flow in the easterly line (LW-8 to MC-105) was traced to the Newark Boxboard Company. This flow was estimated at 0.16 mgd using depth measurements. The municipal swimming pool on Waydell Street was discharging an estimated 0.07 mgd into the westerly line upstream of manhole MC3. The car wash drains at the Sunoco Station on Raymond Boulevard were found to be connected to the storm sewer between manholes MC3 and MC-4. Personnel at Associated Auto Body and Trucks Inc. were observed dumping paint into the storm sewer between manholes MC-6 and MC-7. Manhole MC-7 is the limit of tidal influence and no dry weather flow was observed upstream of that point. A partial blockage was found in the invert of manhole MC-2. Sediment varying in depth between 0.5 and 1.0 feet was noted between manholes LW-8 and MC-7.

(3) Euclid Avenue Sewer

The flow in the Euclid Avenue storm sewer, estimated at 0.02 mgd, was traced to the Reddaway Manufacturing Company's cooling water discharge at inlet E-104.

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(4) Albert Avenue Sewer

Tidal flow was observed in the Albert Avenue storm sewer up to manhole A-3. A minor, intermittent flow of water and oil from Cellomer enters the Cornelia Street gutter and flows to the Albert Avenue storm sewer. However, no dry weather flow was actually observed upstream of manhole A-3.

(5) Lockwood Street Sewer

No dry weather flow was observed in the Lockwood Street storm sewer upstream of manhole LW-8. There is no indication of pollutant sources above that point. The cross-connections shown on the sewer plans were inspected and found to be sealed. A railroad drain on the south side of the Messinger Trucking and Warehouse Corporation building appeared to be connected to the Lockwood Street sanitary sewer. Major spillage of chemicals was observed at the Atlas Refinery Inc. railroad siding. The eastern portion of this siding drains into railroad drainage ditches that are connected to the Blanchard Street storm sewer system. The discharges from Newark Boxboard, the municipal swimming pool, and Reddaway Manufacturing produce a base discharge of approximately 0.25 mgd.

(6) Lister Avenue Tide Gate

There was no evidence of chemical attack or deterioration of the concrete chamber. Sediment in the invert of the chamber prevents the Lister Avenue tide gate from closing completely. The gate allows inflow during the rising tide. Assuming a five foot tidal range and an open tide gate, approximately 270,000 gallons of river water enters with each incoming tide, mixes with pollutants being discharged into the system and flows back into the river as the tide falls. A typical diurnal flow pattern at the tide gate is shown on Plate 9. If

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the tide gates were to close completely, the discharge from the system of any polluted flow would be restricted to a relatively short period around low tide.

(7) Lockwood Street Outfall

An abandoned railroad drain was found connected to manhole LS-1. The last 25 feet of the 72-inch outfall was exposed and showed evidence of chemical attack. Portion of the crown had completely deteriorated. The headwall was not deteriorated and there was no evidence of chemical attack below the spring line of the pipe.

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B. Dry Weather Flow Sampling and Flow Montoring

Sources of dry weather flow and limits of tidal influence were noted during the physical survey. Those sewers in which flow was observed were subdivided for sampling. The first set of samples was obtained on May 2, 1978. The second set was taken on June 14, 1978. The laboratory analysis of these samples is shown in Appendix A. Both sets of samples show high levels of pollution on Lockwood Street, Lister Avenue, Albert Avenue, and the easterly portion of the Morris Canal storm sewer. The samples in the Euclid Avenue sewer fell within water quality standards. Because of tidal action, it was not possible to confirm that all high pollutant readings were caused by discharges near the respective sampling points. A discharge of pollutants anywhere in the system within the tidal range could be mixed and carried to distant sampling points. Samples were obtained at the following locations.

LW-0	Lockwood Street Outfall at the Passaic River
LS-2	Lister Avenue upstream of the tide gate chamber
LS-4	Lister Avenue upstream of Lockwood Street
LS-7	Lister Avenue at Joseph Street
LW-1	Lockwood Street upstream of Lister Avenue
LW-4	Lockwood Street upstream of Albert Avenue
LW-7	Lockwood Street downstream of the Morris Canal
A-1	Albert Avenue at Lockwood Street
A-3	Albert Avenue at Joseph Street
E-1	Euclid Avenue at Lockwood Street
E-104	Euclid Avenue (cooling water connection at inlet)
MC-1	Morris Canal at Lockwood Street (west side)
MC-3	Morris Canal 500 ft. west of Lockwood Street
MC-7	Morris Canal 1400 ft. west of Lockwood Street
MC-100	Morris Canal at Lockwood Street (east side)
MC-104	Morris Canal 800 ft. east of Lockwood Street

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Euclid Avenue was eliminated from further study because of sampling results. The cooling water discharged at Reddaway Manufacturing was sampled at inlet E-104. The Morris Canal storm sewer west of Lockwood Street (LW-8 to MC-11) was eliminated on the basis of physical inspection, lamping and sampling. The intermittent sources of pollution at the Sunoco Car Wash and Associated Auto Body have been identified. The high levels of pollutants detected at manhole MC-1 in the May 2 sampling is attributed to these sources. Sediment downstream caused flow to pool at manhole MC-7 and remain there as the tide went out. Pollutants from downstream appear to have been carried into that manhole by the tide causing the contamination detected in the MC-7 sample on June 14. The 72-inch Lockwood Street Outfall was not televised because there was no evidence of pollutant sources in the line. The Benjamin Moore Company is the only industry adjacent to the outfall. Maps provided by the City of Newark show the roof drains from one building connected to the outfall. The Benjamin Moore laboratory is located in that building but there are no chemical process facilities. The plant engineer indicates that all other surface and roof drainage is pumped directly into the Passaic River. All other storm sewers in which flow was observed were scheduled for television inspection.

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C. Smoke Testing

The storm and sanitary sewers on Lockwood Street, Lister Avenue, Albert Avenue, and the easterly portion of the Morris Canal right-of-way were smoke tested. No problems were observed when the storm sewers were tested. The pipe connecting to manhole LS-1 was found to terminate in an embankment along the nearby railroad spur. This pipe may have functioned as a railroad drain before the track elevation was lowered; it serves no purpose now. The effectiveness of the smoke testing may have been reduced in the larger storm sewers. Blowers were used to force smoke into the pipes under pressure. The volume of the Lockwood Street storm sewer (66-inch) and the number of inlet openings reduced the pressure behind the smoke and may have prevented it from reaching remote connections.

Three inflow sources were detected when the sanitary sewer was smoke tested. All observed roof and area drains at Atlas Refinery Inc. were connected to the sanitary sewer. These drains are a major source of inflow and should be reconnected to the storm sewer. A cross connection was found at the intersection of Joseph Street and Lister Avenue. The storm inlet at the southwest corner of the intersection is connected to the adjacent sanitary manhole. The sanitary sewer elevation is lower than the inlet invert. Sanitary sewage could enter the storm sewer if a blockage occurred. Smoke also escaped from the site of a demolished building at the southwest corner of the Lockwood Street-Albert Avenue intersection. It appears that the building connection was not sealed. No smoke was observed escaping from plumbing vents. It is probable that all connections to the storm and sanitary sewer have line traps which would prevent the passage of smoke.

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D. Television Inspection

The following lengths of storm sewer were inspected using closed circuit television.

Lister Avenue	LS-1 to LS-3
Lister Avenue	LS-4 to LS-11
Lockwood Street	LS-3 to LW-8
Albert Avenue	A-1 to A-3
Morris Canal	LW-8 to MC-104

The inspection of the Lister Avenue line revealed an oil separator at Atlas Refinery Inc. connected to the 66-inch storm sewer approximately 120 ft. upstream of manhole LS-2. This connection is believed to be a major source of pollutants. There is a railroad siding drainage system connected to this oil separator. Tank cars containing chemicals are unloaded at the siding daily and spills are frequent. Much of the spillage is believed to pass through the separator and enter the Lister Avenue storm sewer. No other sources of flow were found during the television inspection of Lister Avenue. Significant settlement was noted between LS-4 and LS-11. The television camera went under water frequently and came out at inlets and manholes. Most lengths of pipe had settled more than 15 inches. Based upon the portions of line that could be seen and the relatively recent date of construction (1970), no illegal connections are suspected. The pollution in the line results from spillage at B-Line Trucking and Cellomer, as well as pollutants washed in by the tide. The flow from the Atlas oil separator, immediately downstream, could cause high pollutant concentrations in the Lister Avenue storm sewer.

Several connections were found in the Lockwood Street storm sewer between manholes LW-4 and LW-3. Pipes were located 34 ft., 92 ft., 104 ft., 133 ft., 143 ft. and 200 ft. downstream of manhole

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LW-4. The pipes at 92 ft. and 104 ft. are shown on old plans as connections to inlets at the intersection. These inlets were connected to the new Albert Avenue storm sewer in 1970. The pipes at 34 ft., 143 ft. and 200 ft. appear to be roof or floor drain connections to the Messinger Trucking and Warehouse Corporation building. There are no wastes eminating from this facility. The connection at 143 ft. may also be a concrete spall; the pipe could not be seen clearly. The connection at 133 ft. comes from the west side of the street in the vicinity of the Albert Avenue intersection. This pipe is not shown on the storm sewer plans, but it may be an abandoned inlet connection. These connections were not flowing when the pipe was televised.

A connection of unknown origin was observed in the Lockwood Avenue storm sewer 53 ft. downstream of manhole LW-3. Inlet connections were also observed 170 ft. and 183 ft. downstream of LW-3. The pipe at 53 ft. connected on the east side and may be from Atlas Refinery Inc. A pipe crossing broken into the crown of the 66-inch line and running perpendicular to it was noted at 201 ft. These pipes were not flowing when televised. A 2-inch ± connection located approximately 10 ft. upstream of manhole LW-2 has been observed by City personnel. This connection comes from the east side of the street and was discharging flow when observed. This connection appeared to originate at Atlas Refinery Inc.

Three connections were noted between manholes LW-2 and LW-1 in the Lockwood street storm sewer. Pipes were observed 149 ft., 159 ft. and 215 ft. downstream of manhole LW-2. The connection at 159 ft. is believed to be from an inlet that was removed during construction of a new building at Atlas Refinery Inc. The connection at 149 ft. appeared to be a large pipe 24-inch ± surrounded by roots. It could also be a connection crossing the 66-inch line. The connection at 215 ft. was from the westerly side of the street. It

FJK000031

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could not be seen clearly and may be a concrete spall. No flow was observed from any of these pipes.

No improper connections were found in the Albert Avenue storm sewer or in the Morris Canal line between manholes LW-8 and MC-104. The pollutants detected in the Albert Avenue line appear to have been carried in by tidal action. Two sources of pollutants are suspected in the Morris Canal sewer east of Lockwood Street. The limit of tidal influence is downstream of manhole MC-104. Yet, pollutants were detected in the sample obtained at that manhole. Newark Boxboard discharges the flow sampled at MC-104 and that flow is polluted. However, the concentration of pollutants downstream, at manhole MC-100, is three times greater than at MC-104. Some pollutants may settle into the sediment during the high tide periods. Flow from Newark Boxboard may flush some of this material and carry it into the Lockwood Street storm sewer.

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E. Conclusions and Recommendations

1. Several improvements are required at Atlas Refinery Inc. The firm should be required to connect its oil separator to the sanitary sewer rather than to the storm sewer. The spillage at the railroad siding should be cleaned up and procedures developed to prevent future spills. Roof and area drains should be connected to the storm sewer rather than to the sanitary sewer as at present. The plant has been expanded several times over the years and complete plans of the piping systems are not available. The Lockwood Street storm sewer is located under the sidewalk in front of the Atlas plant. Connections could have been made without excavation in the street. Connections of unknown origin between manholes LW-3 and LW-1 appear to lead to drains in the Atlas plant complex. Fiske Brothers Refining Company, the industry across the street, is a less likely point of origin since they would have had to excavate the street and cross the sanitary sewer to make connections to the storm sewer. Atlas should be required to evaluate its piping and identify connections to the storm sewer. Any sanitary facilities, chemical processes, or drains that accept polluted flow should be reconnected to the sanitary sewer. Authorized discharges to the storm sewer should be made through a manhole or chamber to allow monitoring by the City.

2. Fiske Brothers Refining Company should be required to cease discharging oil and water into Esther Street and to prevent spills at their railroad siding. Fiske Brothers should be required to identify existing connections to the storm sewer. Connections that accept pollutants should be reconnected to the sanitary sewer. Connections that carry

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nonpolluted flow should be made through a chamber to facilitate monitoring by the City.

3. After Atlas and Fiske Brothers have evaluated their piping and reconnected lines as necessary, the remaining connections of unknown origin between LW-3 and LW-1 should be sealed as a precaution. Initially, temporary plugs should be installed. If the lines are active, a backup will be reported. If no problems occur after one month, the connections should be permanently sealed. The connections observed between LW-4 and LW-3 are believed to be roof drains from the Messinger Warehouse and abandoned inlet connections. They should not be sealed.

4. B-Line Trucking Company should be required to cease discharging black oily waste into Lister Avenue and Esther Street. The spillage that has already occurred should be cleaned up. This flow is believed to be the major source of black oil in the system.

5. Newark Boxboard Company should be required to evaluate its internal piping. Only nonpolluted flow should be discharged into the Morris Canal storm sewer. Polluted flow should be discharged into the Blanchard Street sanitary sewer after that line is cleaned. The City should monitor the flow at manhole MC-104 to assure compliance.

6. Associated Auto Body and Trucks, Inc. should be prohibited from dumping paint or other wastes into the Morris Canal storm sewer.

7. The car wash drains at the Sunoco Station should be reconnected to the sanitary sewer. Suitable grit removal and oil separation facilities should be provided.

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FJK000034

8. Cellomer Corporation should be required to clean up the spillage on their property and cease discharging oil into Cornelia Street. It should be noted that Cellomer was informed of this problem and cleanup operations were underway.

9. Sources of inflow should be eliminated. The cross connection at the intersection of Joseph Street and Lister Avenue should be sealed. The railroad siding drain on the south side of the Messinger Warehouse should be disconnected from the sanitary sewer. The Atlas roof and area drains have already been discussed.

10. The Lister Avenue storm sewer, west of Lockwood Street should be cleaned of debris, sediment and oily wastes.

8

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Comprehensive Report Now with NEW Features

FISKE BROTHERS REFINING CO

D-U-N-S® Number 00-215-3070

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ATTN: **pmegna@intell-group.com**

Report Printed: DEC 07 2005

Back To Report Archive
New Search

Print Entire R
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Overview | Scores | Payments | Public Filings | History & Operations | Banking & Final

OVERVIEW
Business Summary
Executive Summary
Credit Capacity Summary
Special Events
SCORES
Financial Stress
Credit Score Class
PAYMENTS
Payment Trends
Payment Summary
Payment Details
PUBLIC FILINGS
Liens
UCC Filings
Government Activity
HISTORY & OPERATIONS
History
Corporate Family
Business Registration
Operations
SIC & NAICS
BANKING & FINANCE
Statement Update
Banking
Key Business Ratios
Finance
Customer Service
WEB RESOURCES
Business's Web Site
NOW WITH THIS REPORT
Credit Limit Recommendation
D&B RESOURCES
Full Glossary of Terms
Making Better Credit Decisions
Interpreting D&B Ratings and Scores

Overview

BUSINESS SUMMARY

About Business Summa

FISKE BROTHERS REFINING CO
129 Lockwood St
Newark, NJ 07105

D&B D-U-N-S Number: 00-215-3070

Rating Change

This is a **headquarters** location. Branch(es) or division(s) exist.

Web site:	www.lubriplate.com
Telephone:	973 589-9150
Fax:	973 589-4432
Chief executive:	RICHARD T MC CLUSKEY, CHB-PRES
Year started:	1870
Management control:	1953
Employs:	109 (34 here)
Financial statement date:	DEC 31 2004
Sales F:	$24,264,538
Net worth F:	$9,630,277
History:	CLEAR
Financial condition:	STRONG

• Jump to: Finance Section

Now Included with this Report NEW!

D&B's Credit Limit Recommendation
How much credit should you extend?
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Payment Trends Profile
Payment trends and industry benchmarks
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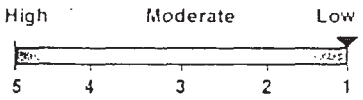
Credit Score Class: 1

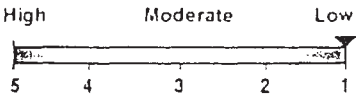
Low risk of severe payment delinquency over next 12 months



• Jump to: Credit Score Class Summary

Financial Stress Class: 1

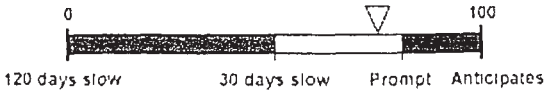
Low risk of severe financial stress over the next 12 months



• Jump to: Financial Stress Summary

12-Month D&B PAYDEX®: 76

When weighted by dollar amount, payments to suppliers average 6 days beyond terms.



• Jump to: PAYDEX

FJK000036

D&B Rating: 3A1

932110051

Understanding Financial Statements
Understanding Key Business Ratios
Submit a Credit Reference on this Business

SIC: 2992
• Jump to: SIC & NAICS Section

Line of business: Mfg greases & blends lubricating oils

Formerly 1R2

Financial strength: 3A is **$1 to 10 million.**

Composite credit appraisal: 1 is **high.**

• Jump to: Credit Capacity Summary

Corporate Family

View the interactive global family tree for this business - now included as part of your Preferred Pricing subscription.

This business is at the top of the corporate family. Click the link below to view subsidiaries and branches.

View more family members

D&B EXCLUSIVE

EXECUTIVE SUMMARY

Back to Top

About Executive Summa

The **Financial Stress Class of 1** for this company shows that during the previous year, firms with this classification had a failure rate of 0.49% (49 per 10,000), which is lower than the national average.

The **Credit Score class of 1** for this company shows that during the previous year, 2.3% of the firms with this classification paid one or more bills severely delinquent, which is lower than the national average.

Financial information from a fiscal statement dated 12/31/04 is included.

Predictive Scores	This Business	Comments
Financial Stress Class	1	Failure Rate lower than the national average
Financial Stress Score	1526	Highest Risk: 1,001; Lowest Risk: 1,850
Credit Score Class	1	Probability of Severely Delinquent Payment is lower than the national average

Other Key Indicators		
Current PAYDEX	6 days beyond terms	Pays more promptly than the average for its industry of 8 days beyond terms
Industry Median	8 days beyond terms	
Present management control	52 years	
UCC Filings	UCC filing(s) are reported for this business	
Public Filings	No record of open Suit(s), Lien(s), or Judgment(s) in the D&B database	
History	Is clear	
Special Events	Are reported for this business	

CREDIT CAPACITY SUMMARY

Back to Top

About Credit Capacity Summa

D&B Rating: **3A1**

Financial strength: 3A indicates **$1 to 10 million.**

FJK000037

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Composite credit appraisal: 1 is **high**.

This credit rating was assigned because of D&B's assessment of the company's financial ratios and its cash flow. For more information, see the **D&B Rating Key**.

Sales:	$24,264,538	**Payment Activity:** (based on 74 experiences)	
# of Employees Total:	109 (34 here)		
As of 12/31/04		**Average High Credit:**	$8,670
Worth:	$9,630,277	**Highest Credit:**	$100,000
Working Capital:	$6,034,944	**Total Highest Credit:**	$622,450

Note: The Worth amount in this section may have been adjusted by D&B to reflect typical deductions, such as certain intangible assets.

SPECIAL EVENTS About Special Eve
Back to Top

11/15/2004
A Rating change has occurred on this company.

Jump to:

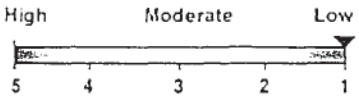
Overview | Payments | Public Filings | History & Operations | Banking & Finance

Scores D&B EXCLUSIVE

FINANCIAL STRESS SUMMARY About Financial Stress Summa
Back to Top

The Financial Stress Summary Model predicts the likelihood of a firm ceasing business without paying all creditors in full, or reorganization or obtaining relief from creditors under state/federal law over the next 12 months. Scores were calculated using a statistically valid model derived from D&B's extensive data files.

Financial Stress Class: **1**



Low risk of severe financial stress, such as a bankruptcy, over the next 12 months.

Incidence of Financial Stress

Among Businesses with this Classification:	0.49% (49 per 10,000)
National Average	1.40% (140 per 10,000)

Financial Stress National Percentile: **93** (Highest Risk: 1; Lowest Risk: 100)

Financial Stress Score: **1526** (Highest Risk: 1,001; Lowest Risk: 1,850)

The Financial Stress Class of this business is based on the following factors: FJK000038

- No record of open suit(s), lien(s), or judgement(s) in the D&B files.
- Control age or date entered in D&B files indicates lower risk.
- Payment experiences exist for this firm which are greater than 60 days past due.
- 9% of trade experiences indicate slow payment(s) are present.
- Business owns facilities.

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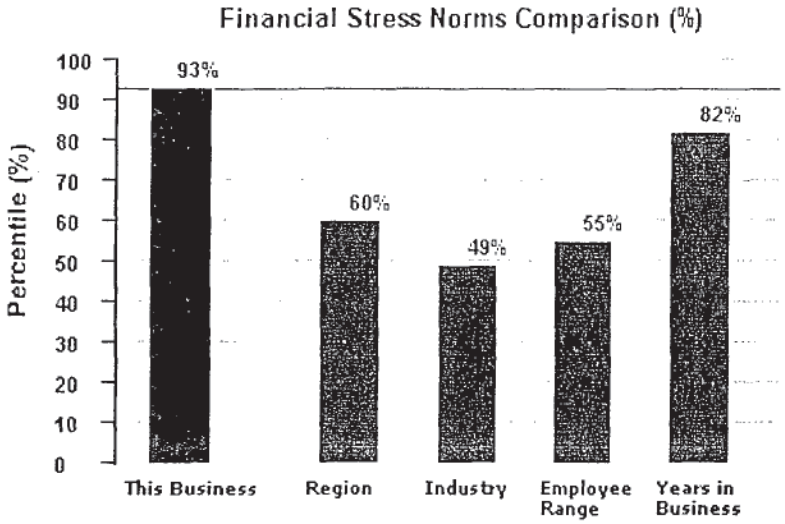
Notes:

- The Financial Stress Class indicates that this firm shares some of the same business and financial characteristics of other companies with this classification. It does not mean the firm will necessarily experience financial stress.
- The Incidence of Financial Stress shows the percentage of firms in a given Class that discontinued operation over the past year with loss to creditors. The Incidence of Financial Stress - National Average represents the national failure rate and is provided for comparative purposes.
- The Financial Stress National Percentile reflects the relative ranking of a company among all scorable companies in D&B's file.
- The Financial Stress Score offers a more precise measure of the level of risk than the Class and Percentile. I is especially helpful to customers using a scorecard approach to determining overall business performance.
- All Financial Stress Class, Percentile, Score and Incidence statistics are based on 2002.



Region=MIDDLE ATLANTIC
Industry=MANUFACTURING
Employee Range=100-499
Years in Business=26+

Norms	National %
This Business	93
Region: **MIDDLE ATLANTIC**	60
Industry: **MANUFACTURING**	49
Employee Range: **100-499**	55
Years in Business: **26+**	82

This business has a Financial Stress Percentile that shows:

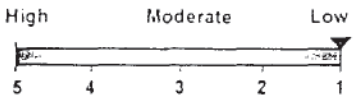
- Lower risk than other companies in the same region.
- Lower risk than other companies in the same industry.
- Lower risk than other companies in the same employee size range.
- Lower risk than other companies with a comparable number of years in business.

CREDIT SCORE CLASS SUMMARY (?) About Credit Score Class Summ

Back to Top

The Credit Score class predicts the likelihood of a firm paying in a severely delinquent manner (90+ Days Past Terms) over the next twelve months. It was calculated using statistically valid models and the most recent paymer information in D&B's files.

Credit Score Class: **1**



Low risk of severe payment delinquency over next 12 months.

Incidence of Delinquent Payment

FJK000039

Among Companies with this Classification: 2.30%

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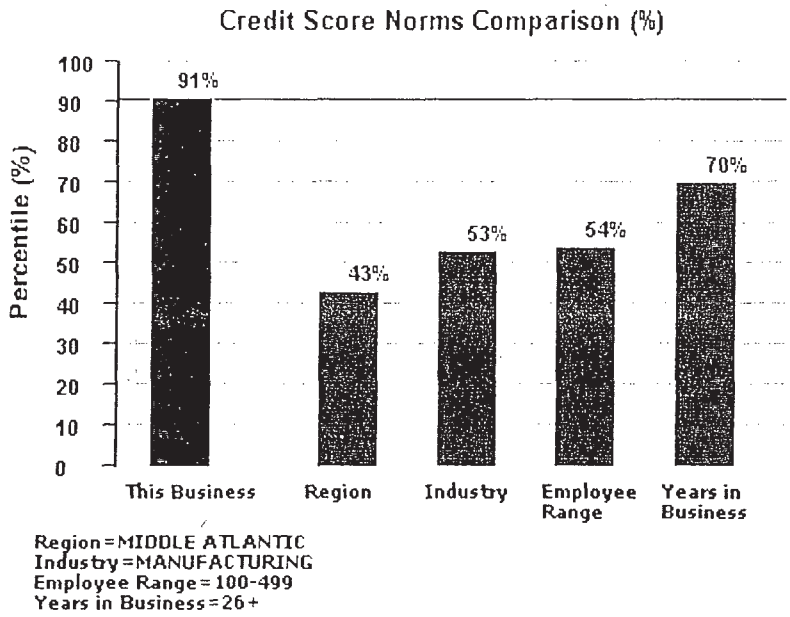
Credit Score Percentile: 91 (Highest Risk: 1; Lowest Risk: 100)

The Credit Score Class of this business is based on the following factors:

- Control age or date entered in D&B files indicates lower risk.
- No record of open suit(s), lien(s), or judgments(s) in the D&B files.
- D&B files indicate a net worth of $9,630,277.
- Quick ratio is 1.1.

Notes:

- The Incidence of Delinquent Payment is the percentage of companies with this classification that were reported 90 days past due or more by creditors. The calculation of this value is based on an inquiry weighte sample.
- The Percentile ranks this firm relative to other businesses. For example, a firm in the 80th percentile has a lower risk of paying in a severely delinquent manner than 79% of all scorable companies in D&B's files.



Norms	National %
This Business	91
Region: **MIDDLE ATLANTIC**	43
Industry: **MANUFACTURING**	53
Employee Range: **100-499**	54
Years in Business: **26+**	70

This business has a Credit Score Percentile that shows:

- Lower risk than other companies in the same region.
- Lower risk than other companies in the same industry.
- Lower risk than other companies in the same employee size range.
- Lower risk than other companies with a comparable number of years in business.

Jump to:

Overview | Scores | Public Filings | History & Operations | Banking & Finance

Payments D&B EXCLUSIVE

FJK000040

PAYMENT TRENDS (?) About Payment Trer

Back to Top

Total Payment Experiences in D&B's File: 74

Current PAYDEX is: **76** equal to 6 days

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				beyond terms
Payments Within Terms: (not dollar weighted)	94%	**Industry Median is:**	**75**	equal to 8 days beyond terms
Total Placed For Collection:	0	**Payment Trend currently is:**		**unchanged,** compared to payments three months ago
Average Highest Credit:	$8,670			
Largest High Credit:	$100,000			
Highest Now Owing:	$85,000			
Highest Past Due:	$65,000			

Indications of slowness can be the result of dispute over merchandise, skipped invoices, etc. Accounts are sometimes placed for collection even though the existence or amount of the debt is disputed.

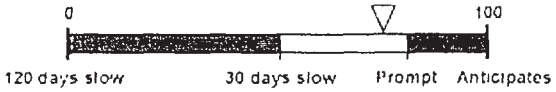
PAYDEX Scores
Back to Top

About PAYDEX Scor

Shows the D&B PAYDEX scores as calculated on the most recent 3 months and 12 months of payment experiences

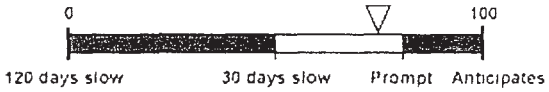
The D&B PAYDEX is a unique, dollar weighted indicator of payment performance based on up to payment experiences as reported to D&B by trade references. A detailed explanation of how to read and interpret PAYDEX scores can be found at the end of this report.

3-Month D&B PAYDEX: 75
When weighted by dollar amount, payments to suppliers average 8 days beyond terms.



Based on payments collected over last 3 months.

12-Month D&B PAYDEX: 76
When weighted by dollar amount, payments to suppliers average 6 days beyond terms.



Based on payments collected over last 12 months.

D&B PAYDEX Key

- High risk of late payment (average 30 to 120 days beyond terms)
- Medium risk of late payment (average 30 days or less beyond terms)
- Low risk of late payment (average prompt to 30+ days sooner)

PAYDEX Yearly Trend
Back to Top

About PAYDEX Yearly Tre

12 Month PAYDEX Scores Comparison to Industry

	1/05	2/05	3/05	4/05	5/05	6/05	7/05	8/05	9/05	10/05	11/05	12/05
This Business	79	77	76	76	76	76	76	75	76	76	76	76
Industry Quartiles												
Upper			79			79			79			79
Median			75			76			75			75
Lower			69			69			69			68

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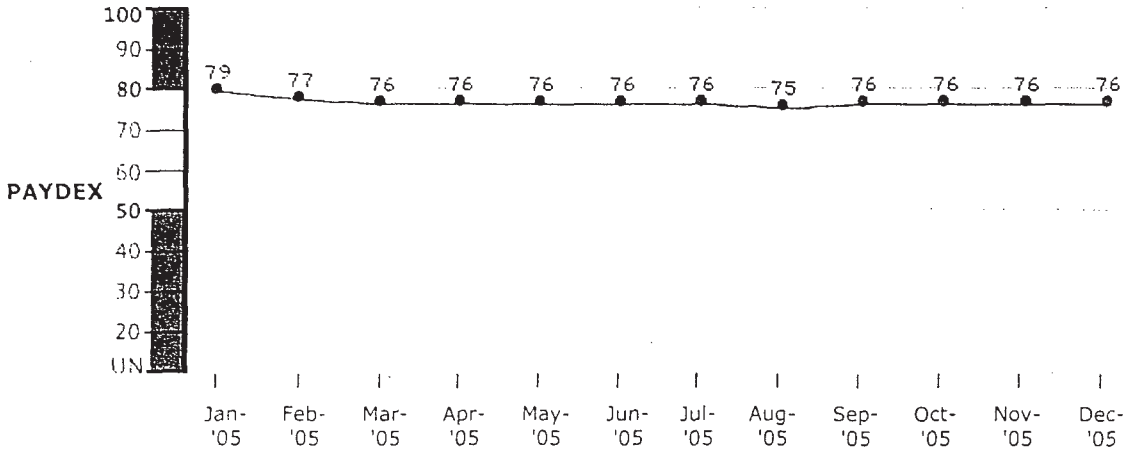
Shows the trend in D&B PAYDEX scoring over the past 12 months.



Last 12 Months

Based on payments collected over the last 12 months.

- Current PAYDEX for this Business is 76, or equal to 6 days beyond terms
- The 12-month high is **79**, or equal to 2 days beyond terms
- The 12-month low is **75**, or equal to 8 days beyond terms

PAYDEX Comparison to Industry

Back to Top

About PAYDEX Comparison to Indus

Shows PAYDEX scores of this Business compared to the Primary Industry from each of the last four quarters. The Primary Industry is Mfg greases & blends lubricating oils, based on SIC code 2992.

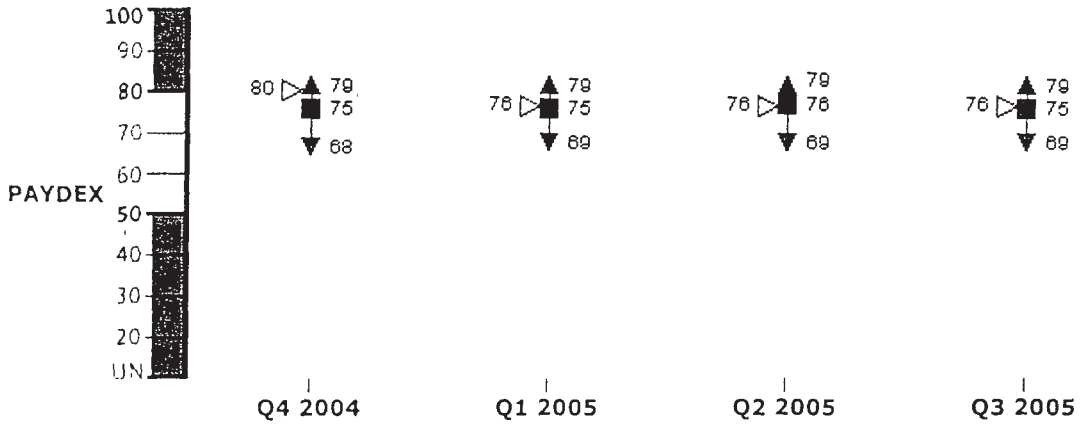
Quarterly PAYDEX Scores Comparison to Industry

Previous Year

	12/03	3/04	6/04	9/04
This Business	UN	76	79	79
Industry Quartiles				
Upper	79	79	79	79
Median	75	75	75	75
Lower	69	69	69	68

Current Year

	12/04	3/05	6/05	9/05
This Business	80	76	76	76
Industry Quartiles				
Upper	79	79	79	79
Median	75	75	76	75
Lower	68	69	69	69



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Last 12 Months

Based on payments collected over the last 4 quarters.

Score Comparison Key: ▷ This Business ▲ Industry upper quartile ■ Industry median ▼ Industry lower quartile

- Current **PAYDEX** for this Business is **76**, or equal to 6 days beyond terms
- The present industry **median score** is **75**, or equal to 8 days beyond terms.

- Industry upper quartile represents the performance of the payers in the 75th percentile
- Industry lower quartile represents the performance of the payers in the 25th percentile

Payment Habits
Back to Top

About Payment Hat

For all payment experiences within a given amount of credit extended, shows the percent that this Business paid within terms. Provides number of experiences used to calculate the percentage, and the total dollar value of the credit extended.

$ Credit Extended	% of Payments Within Terms	# Payment Experiences	$ Total Dollar Amount
Over 100,000	83%	3	$300,000
50,000-100,000	100%	2	$105,000
15,000-49,999	86%	4	$105,000
5,000-14,999	100%	6	$40,000
1,000-4,999	87%	18	$28,500
Under 1,000	97%	35	$11,100

0% 50% 100%

Based on payments collected over the last 12 months.

Payment experiences reflect how bills are met in relation to the terms granted. In some instances, payment beyond terms can be the result of disputes over merchandise, skipped invoices, etc.

PAYMENT SUMMARY
Back to Top

About Payment Summa

The Payment Summary section reflects payment information in D&B's file as of the date of this report.

There are 74 payment experiences in D&B's file for the most recent 12 months, with 58 experiences reported during the last three month period.

Below is an overview of the company's dollar-weighted payments, segmented by its suppliers' primary industries:

Total Rcv'd (#)	Total Dollar Amts ($)	Largest High Credit ($)	Within Terms (%)	Days Slow <31 31-60 61-90 90> (%)

932110058 FJK000043

Top industries:

Trucking non-local	20	15,950	2,500	91	9	0	0	0
Nonclassified	7	31,250	10,000	100	0	0	0	0
Telephone communictns	4	900	500	100	0	0	0	0
Mfg inorganic chemcls	3	155,000	100,000	100	0	0	0	0
Whol electrical equip	3	1,350	1,000	100	0	0	0	0
Radiotelephone commun	3	650	500	100	0	0	0	0
Short-trm busn credit	3	1,250	500	90	10	0	0	0
Petroleum refining	2	155,000	100,000	100	0	0	0	0
Whol industrial suppl	2	100,250	100,000	50	50	0	0	0
Misc business credit	2	1,250	750	100	0	0	0	0
Mfg metal cans	1	50,000	50,000	100	0	0	0	0
Paperboard mill	1	30,000	30,000	50	0	0	0	50
Whol chemicals	1	20,000	20,000	100	0	0	0	0
Sawmill/planing mill	1	5,000	5,000	100	0	0	0	0
Mfg millwork	1	5,000	5,000	100	0	0	0	0
Whol misc profsn eqpt	1	5,000	5,000	100	0	0	0	0
Mfg crowns/closures	1	2,500	2,500	50	50	0	0	0
Whol industrial equip	1	2,500	2,500	100	0	0	0	0
General warehousing	1	2,500	2,500	50	50	0	0	0
Ret mail-order house	1	1,000	1,000	100	0	0	0	0
Natural gas distrib	1	1,000	1,000	100	0	0	0	0
Ret-direct selling	1	750	750	100	0	0	0	0
Mfg photograph equip	1	250	250	100	0	0	0	0
Mfg paint/allied prdt	1	250	250	100	0	0	0	0
Regulate trnsprtation	1	250	250	100	0	0	0	0
Mfg industrial gases	1	250	250	100	0	0	0	0
Whol durable goods	1	250	250	100	0	0	0	0
Whol electronic parts	1	100	100	100	0	0	0	0
Whol service paper	1	100	100	100	0	0	0	0
Whol hardware	1	50	50	100	0	0	0	0
Whol metal	1	0	0	0	0	0	0	0

Other payment categories:

Cash experiences	0	0	0
Payment record unknown	4	32,850	25,000
Unfavorable comments	0	0	0

Placed for collections:

With D&B	0	0	0
Other	0	N/A	0
Total in D&B's file	74		100,000

The highest **Now Owes** on file is $85,000 The highest **Past Due** on file is $65,000

Accounts are sometimes placed for collection even though the existence or amount of the debt is disputed. Indications of slowness can be result of dispute over merchandise, skipped invoices, etc.

PAYMENT DETAILS

Back to Top

About Payment Deta

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Detailed payment history

Date Reported	Paying Record	High Credit	Now Owes	Past Due	Selling Terms	Last Sale

932110059

(mm/yy)		($)	($)	($)		Within (months)
11/05	Ppt	30,000	0	0		1 mo
	Ppt	5,000	5,000	0		1 mo
	Ppt	2,500	750	0	N15	1 mo
	Ppt	1,000	1,000	0		1 mo
	Ppt	1,000	100	0	N15	1 mo
	Ppt	500	0	0		1 mo
	Ppt	250	0			2-3 mos
	Ppt	250	0	0	N15	1 mo
	Ppt	250	0	0	N15	4-5 mos
	Ppt	0	0	0		6-12 mos
	Ppt-Slow 30	2,500	2,500	0	N15	1 mo
	Ppt-Slow 30	2,500	2,500	750		1 mo
	(013)	25,000	15,000			1 mo
	(014)	7,500	7,500	0	N30.	1 mo
	(015)	100	0	0		1 mo
10/05	Ppt	100,000	0	0		1 mo
	Ppt	100,000	85,000	20,000		1 mo
	Ppt	50,000	2,500	0	N30	1 mo
	Ppt	25,000	25,000	0		1 mo
	Ppt	10,000	0	0		4-5 mos
	Ppt	7,500	0	0		1 mo
	Ppt	5,000	250	0		1 mo
	Ppt	5,000	2,500	0	N30	1 mo
	Ppt	2,500	0	0		1 mo
	Ppt	2,500	750	0		1 mo
	Ppt	1,000	250	250		1 mo
	Ppt	1,000	0	0		2-3 mos
	Ppt	1,000	0	0		2-3 mos
	Ppt	1,000	100	0		1 mo
	Ppt	1,000	0	0	N30	2-3 mos
	Ppt	1,000	750	0	N30	1 mo
	Ppt	1,000	500	0		1 mo
	Ppt	750	0	0		6-12 mos
	Ppt	750	0	0	N30	4-5 mos
	Ppt	500	100	0		1 mo
	Ppt	500	50	0		1 mo
	Ppt	500	0	0		6-12 mos
	Ppt	500	0	0		4-5 mos
	Ppt	250	0	0		1 mo
	Ppt	250	0	0		1 mo
	Ppt	250	100	0		1 mo
	Ppt	250	0	0	N30	4-5 mos
	Ppt	250	0	0		2-3 mos
	Ppt	250	0	0		2-3 mos
	Ppt	100	100	0		1 mo
	Ppt	100	0	0		2-3 mos
	Ppt	50	0	0	N30	6-12 mos
	Ppt	50	50	0		1 mo
	Ppt	0	0	0	N15	6-12 mos

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	Ppt-Slow 30	100,000	75,000	65,000		1 mo
	Ppt-Slow 30	2,500	0	0		2-3 mos
	Ppt-Slow 90+	30,000	25,000	0		1 mo
	(053)	250	250	0	N30	
09/05	Ppt	750	50		Lease Agreemnt	
	Ppt	500	250	0		1 mo
	Ppt	500	500	0		1 mo
	Ppt-Slow 30	250	50	0		1 mo
	(058)	250				1 mo
	Satisfactory.					
08/05	Ppt	1,000	0	0	N30	6-12 mos
	Ppt	750	0	0		1 mo
	Slow 30	250	0	0		6-12 mos
06/05	Ppt	250	0	0		2-3 mos
	Ppt	100	0	0		6-12 mos
05/05	Ppt	7,500	0	0		6-12 mos
	Ppt	2,500	0	0		6-12 mos
04/05	Ppt	500	500	0		1 mo
	Ppt	100	0	0	N30	6-12 mos
01/05	Ppt	1,000	250	0		1 mo
	Ppt	100	0	0	N30	6-12 mos
	Ppt	100	0	0		2-3 mos
	Ppt	50	0	0	N30	6-12 mos
12/04	Ppt	100	0	0	N30	6-12 mos
09/04	Ppt	55,000	55,000	0		1 mo
	Ppt	20,000	0	0		6-12 mos

Payments Detail Key: ■ 30 or more days beyond terms

Payment experiences reflect how bills are met in relation to the terms granted. In some instances payment beyond terms can be the result of disputes over merchandise, skipped invoices etc.

Each experience shown is from a separate supplier. Updated trade experiences replace those previously reported.

Jump to:

Overview | Scores | Payments | History & Operations | Banking & Finance

Public Filings

PUBLIC FILINGS

Back to Top

The following data includes both open and closed filings found in D&B's database on the subject company.

Record Type	# of Records	Most Recent Filing Date
Bankruptcy Proceedings	0	-
Judgments	0	-
Liens	1	09/30/1998
Suits	0	-
UCC's	5	11/12/2004

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The following Public Filing data is for information purposes only and is not the official record. Certified copies can

932110061

only be obtained from the official source.

LIENS
Back to Top

About Lie

A lienholder can file the same lien in more than one filing location. The appearance of multiple liens filed by the same lienholder against a debtor may be indicative of such an occurrence.

Amount:	**$4,649**
Status:	**Released**
DOCKET NO.:	98JG14029
Type:	State Tax
Filed by:	STATE OF OHIO
Against:	FISKE BROTHERS REFINING COMPANY
Where filed:	FRANKLIN COUNTY COMMON PLEAS COURT, COLUMBUS, OH
Date status attained:	12/03/1998
Date filed:	09/30/1998
Latest Info Received:	11/25/2002

UCC FILINGS
Back to Top

About UCC Filir

Collateral:	Negotiable instruments including proceeds and products - Inventory including proceeds and products - Accounts receivable including proceeds and products - Assets including proceeds and products - and OTHERS
Type:	Original
Sec. party:	SOVEREIGN BANK, ITS SUCCESSORS AND/OR ASSIGNS, PRINCETON, NJ
Debtor:	FISKE BROTHERS REFINING COMPANY
Filing number:	0411121139216
Filed with:	SECRETARY OF STATE/UCC DIVISION, ALBANY, NY
Date filed:	11/12/2004
Latest Info Received:	11/18/2004

Collateral:	Products - Proceeds - LEASES,SPECIFIC EQUIPMENT
Type:	Original
Sec. party:	AT & T CREDIT CORPORATION, PARSIPPANY, NJ
Debtor:	FISKE BROTHERS REFINING CO INC
Filing number:	AM91788
Filed with:	SECRETARY OF STATE/UCC DIVISION, COLUMBUS, OH
Date filed:	07/29/1996
Latest Info Received:	09/06/1996

Collateral:	Leased Equipment
Type:	Original
Sec. party:	LYNNRAY FINANCIAL CORPORATION, NORCROSS, GA
Debtor:	FISKE BROTHERS REFINING COMPANY, TOLEDO, OH
Filing number:	AP305622
Filed with:	SECRETARY OF STATE/UCC DIVISION, COLUMBUS, OH
Date filed:	01/04/2001
Latest Info Received:	03/16/2001

Collateral:	Leased CONSIGNED MERCHANDISE including proceeds and products
Type:	Original
Sec. party:	AT&T CREDIT CORPORATION, PARSIPPANY, NJ
Debtor:	FISKE BROTHERS REFINING CO INC
Filing number:	1699926
Filed with:	SECRETARY OF STATE/UCC DIVISION, TRENTON, NJ
Date filed:	05/22/1996
Latest Info Received:	06/17/1996

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Type:	Continuation
Sec. party:	FIRST UNION NATIONAL BANK F/K/A FIRST FIDELITY BANK, N.A., N.J., NEWARK, NJ
Debtor:	FISKE BROTHERS REFINING COMPANY
Filing number:	1465009
Filed with:	SECRETARY OF STATE/UCC DIVISION, TRENTON, NJ
Date filed:	05/16/1997
Latest Info Received:	07/15/1997
Original UCC filed date:	07/16/1992
Original filing no.:	1465009

The public record items contained in this report may have been paid, terminated, vacated or released prior to the date this report was printed.

GOVERNMENT ACTIVITY About Government Activ
Back to Top

Activity summary

Borrower (Dir/Guar):	NO
Administrative debt:	NO
Contractor:	NO
Grantee:	NO
Party excluded from federal program(s):	NO

Possible candidate for socio-economic program consideration

Labor surplus area:	YES (2005)
Small Business:	YES (2005)
8(A) firm:	N/A

The details provided in the Government Activity section are as reported to Dun & Bradstreet by the federal government and other sources.

Jump to:

Overview | Scores | Payments | Public Filings | Banking & Finance

History & Operations

HISTORY About Histo
Back to Top

The following information was reported **09/15/2004**:

Officer(s): RICHARD T MC CLUSKEY, CHB-PRES
EMMETT F BARRETT, V PRES-TREAS
JAMES GIRARD, V PRES-GEN MGR
ROBERT A REH, EXECUTIVE VICE-PRESI
MICHAEL J MCCLUSKEY, SECRETARY

DIRECTOR(S): THE OFFICER(S)

Business started 1870 by Thomas and Frederick Fiske. Present control succeeded 1953. 100% of capital stock is owned by officers.

RICHARD T MC CLUSKEY born 1943. EDUCATION: Graduated from Rutgers University, Newark, NJ. INDUSTRY EXPERIENCE: Employed here since 1962, elected officer 1974.

EMMETT F BARRETT born 1944. EDUCATION: Graduated from St Peter's College, Jersey City, NJ. INDUSTRY EXPERIENCE: Started here 1962, elected officer 1982.

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JAMES GIRARD born 1956. EDUCATION: Graduated from Seton Hall University, South Orange, NJ. INDUSTRY EXPERIENCE: Employed here since 1980 as district manager and salesman, named vice president and general manager in 1981.

ROBERT A REH. antecedents ARE UNDETERMINED.

CORPORATE FAMILY About Corporate Fam
Back to Top

View the interactive global family tree for this business - now included as part of your Preferred Pricing subscription.

For more details on the Corporate Family, view the interactive global family tree

Branches (US):
Select companies below to buy Business Information Report(s).

Fiske Brothers Refining Co	Toledo, OH	DUNS # 00-504-3690

BUSINESS REGISTRATION About Business Registrat
Back to Top

CORPORATE AND BUSINESS REGISTRATIONS PROVIDED BY MANAGEMENT OR OTHER SOURCE

The Corporate Details provided below may have been submitted by the management of the subject business and may not have been verified with the government agency which records such data.

Registered Name: Fiske Brothers Refining Co (Inc)

Business type: CORPORATION
Corporation type: PROFIT
Date incorporated: FEB 10 1891
State of incorporation: NEW YORK

Common stock
Authorized shares: 21,600
Par value: NO PAR VALUE

Where filed: Secretary of State, Albany, NY

OPERATIONS About Operatic
Back to Top

09/15/2004

Description: Manufactures greases and blends lubricating oils. ISO 9001/QS-9000 Registered Quality System.

ADDITIONAL TELEPHONE NUMBER(S): Facsimile (Fax) 973 589-4432.

Terms are Terms are cash, check or credit card, net 30 days and 2% 10 net 30 days. Has 3,000 account(s). Sells to manufacturers, retail and commercial concerns. Territory : USCAN.

Nonseasonal.

Employees: 109 which includes officer(s). 34 employed here.

Facilities: Owns 100,000 sq. ft. in two story brick building.

Location: Industrial section on side street.

Branches: The business also owns a 180,000 sq. ft. facility at 1500 Oakdale Ave, Toledo, OH where all manufacturing is conducted as of Dec 1991.

FJK000049

932110064

SIC & NAICS
Back to Top

About SIC & NAI

SIC:

Based on information in our file, D&B has assigned this company an extended 8-digit SIC. D&B's use of 8-digit SICs enables us to be more specific to a company's operations than if we use the standard 4-digit code.

The 4-digit SIC numbers link to the description on the Occupational Safety & Health Administration (OSHA) Web site. Links open in a new browser window.

29929901 Oils and greases, blending and compounding

NAICS:

324191 Petroleum Lubricating Oil and Grease Manufacturing

Jump to:

Overview | Scores | Payments | Public Filings | History & Operations

Banking & Finance

STATEMENT UPDATE
Back to Top

About Statement Upd

05/24/2005

Fiscal statement dated DEC 31 2004:

Assets		Liabilities	
Cash	2,312,373	Accounts Payable & Accruals	4,422,932
Accts Rec	2,350,616		
Inventory	5,101,301		
Refundable Taxes	108,000		
Deferred Income Taxes	244,305		
Advances To Employees	27,530		
Deferred Financing Costs-Net	26,280		
Prepaid	287,471		
Curr Assets	**$10,457,876**	**Curr Liabs**	**$4,422,932**
Fixt & Equip	4,740,388	L.T. Liab-Other	4,899,079
Prepaid Income Taxes	362,000	CAPITAL STOCK	2,160,000
Investments-Other	867,244	ACCUM OTHER COMPREHENSIVE LOSS-NET	(128,964)
Other Assets	2,524,780	RETAINED EARNINGS	14,760,590
		TREASURY STOCK	(7,161,349)
Total Assets	**$18,952,288**	**Total**	**$18,952,288**

Extent of audit, if any, not indicated.

Fixed assets shown net less $6,520,556 depreciation.

BANKING

About Bank

FJK000050

932110065

Back to Top

BANK: First Union Bank, Newark, NJ

KEY BUSINESS RATIOS
Back to Top

About Key Business Rat

Statement date: DEC 31 2004
Based on this number of establishments: 26

Industry Norms based on 26 establishments

	This Business	Industry Median	Industry Quartile
Profitability			
Return on Sales	UN	2.2	UN
Return on Net Worth	UN	15.6	UN
Short-Term Solvency			
Current Ratio	2.4	2.1	2
Quick Ratio	1.1	1.1	2
Efficiency			
Assets Sales	78.1	41.2	4
Sales / Net Working Capital	UN	8.2	UN
Utilization			
Total Liabs / Net Worth	96.8	112.8	2

UN = Unavailable

FINANCE
Back to Top

About Finar

09/15/2004

Three-year statement comparative:

	Fiscal Dec 31 1999	Fiscal Dec 31 2000	Fiscal Dec 31 2001
Current Assets	12,694,947	11,114,757	11,603,747
Current Liabs	2,471,821	2,498,664	2,121,741
Current Ratio	5.14	4.45	5.47
Working Capital	10,223,126	8,616,093	9,482,006
Other Assets	10,411,756	10,893,678	10,156,401
Net Worth	19,034,997	17,896,846	17,851,791
Sales	15,000,000		
Long Term Liab	1,599,885	1,612,925	1,786,616

Fiscal statement dated DEC 31 2002:

Assets		**Liabilities**	
Cash	5,077,436	Accts Pay	2,103,650
Accts Rec	1,929,079		
Inventory	4,589,750		

FJK000051

932110066

Refundable Taxes	120,000		
Deferred Income Taxes	298,000		
Due from Employees	37,187		
Prepaid	99,637		
Curr Assets	**$12,151,089**	**Curr Liabs**	**$2,103,650**
Fixt & Equip	5,428,161	L.T. Liab-Other	1,921,109
Defered Charges	3,423,240	CAPITAL STOCK	2,160,000
Investments-Other	814,404	Treasury Stock	(1,645,152)
		RETAINED EARNINGS	17,277,287
Total Assets	**$21,816,894**	**Total**	**$21,816,894**

From JAN 01 2002 to DEC 31 2002 annual sales $24,264,538; cost of goods sold $12,333,494. Gross profit $11,931,044; operating expenses $10,473,498. Operating income $1,457,546; other expenses $674,342; net income before taxes $783,204; Federal income tax $122,718. Net income $660,486.

Submitted by E F Barrett, V Pres Treasurer. Extent of audit, if any, not indicated.

Fixed assets shown net less $5,333,920 depreciation.

Sources contacted verified information on September 7, 2004.

CUSTOMER SERVICE

Back to Top

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Overview Scores Payments Public Filings History & Operations Banking & Financ

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FJK000052

932110067

9

932110068

Finding Aid: Trade Catalogs: New Brunswick - North Hackensack

- New Brunswick
- New Egypt
- New Hampton
- New Market
- Newark
- North Bergen
- North Brunswick
- North Hackensack
- Nutley

N

New Brunswick

The American and the Wishbone.
New Brunswick, N.J.: American Incubators Inc., 1929.
Illustrated catalog of incubators to raise chicks.
[Size 3]

The American and the Wishbone Mammoth Incubators.
New Brunswick, N.J.: American Incubators Inc., 1929.
Advertisement and price list for incubators to raise chicks.
[Size 2]

The Annihilator cough syrup.
New Brunswick, N.J.: McDonald & Sons Druggists, [1852].
Includes other drugs the store sold.
[Size 1]

Annual descriptive catalogue of garden, field and flower seeds.
New Brunswick, N.J.: Cherry Lawn Farm, 1872.
Also includes vegetable plants, seed potatoes, fertilizers, small fruits and books.
[Size 1]

Brunswick Blueprint Co.
New Brunswick, N.J.: Brunswick Blueprint Co., 1983.
[Size 1]

FJK000053

The Brunswick refrigerating and ice making machinery reference list.
New Brunswick, N.J.: The Brunswick Refrigeration Co., [s.a.].
[Size 1]

932110069

The long distance electric truck.
Newark, N.J.: Atlantic Vehicle Co., [s.a.].
Factory located in Newark.
[Size 2]

Longer routes.
Newark, N.J.: Atlantic Vehicle Company, [s.a.].
[Size 1]

Lubriplate, the white waterproof lubricant: best for reels and guns!
Newark, N.J.: Lubriplate Division, Fiske Brothers Refining Co., [between 1950 and 1960].
[Size 3]

The Macknet rocking grate.
Newark, N.J.: The Macknet Grate Bar Co., [1896].
Rocking grate for more efficient industrial coal burning.
[Size 1]

Made expressly for Westcott Motor Car Co. by Radel Leather Manufacturing Co.
Newark, N.J.: Radel Leather Manufacturing Co., 1917.
Automobile Spanish Leather.
[Size 4]

Magnolia isotropic die-cast bearing bronze.
Newark, N.J.: Magnolia Metal Company, Inc., [19--].
[Size 2]

Maintenance catalogue and selection guide to air filters for air conditioning, heating & ventilating.
Newark, N.J.: Mercury Filter Corp., [19--].
[Size 2]

Make any wall a thrilling "picture window" with a Foto Mural in natural color.
Newark, N.J.: Damar Products, Inc., 1954.
[Size 2]

Maltbie pharmaceutical products.
Newark, N.J.: The Maltbie Chemical Co., 1933.
Detailed descriptions and prices of pharmaceutical compounds and products.
[Size 1]

Mapes complete manures.
New York, N.Y.: The Mapes Formula and Peruvian Guano Co., 1886.
Works at Newark, N.J., for sale by Thos. Lupton, Matawan, N.J.
[Size 1]

Mercury's free introductory conversion kit offer.
Newark, N.J.: Mercury Filter Corp., [19--].
[Size 2]

The Merrill Shops.
Newark, N.J.: The Merrill Shops, [ca. 1930].
Catalog and prices of pewter.
[Size 1]

FJK000054

Miniature catalogue.
Newark, N.J.: Thomas Kelly, Manufacturer, [between 1890 and 1909].

932110070

Success Stories

View Stories By: State | Center | Highlights | Search

Fiske Brothers Refining Co

Center Name: Ohio Manufacturing Extension Partnership

Client Profile: Fiske Brothers Refining Company manufactures and distributes lubricating grease and oil products for the industrial, automotive, food, beverage and pharmaceutical industries. Its facilities--in Toledo, Ohio and Newark, New Jersey--employ less than 100 people

Situation: Fiske Brothers knows that to stay in business 130 years a business has to be adaptable, responsive, progressive, and well informed. Fiske Brothers opened its doors in 1871 in a world with no automobiles, typewriters or telephones. Today, Fiske is registered in the most progressive quality standards currently accepted in the industry: QS 9000, ISO 9001, and it is pursuing ISO 14001. The company also is implementing lean manufacturing techniques within its operations and exploring eBusiness strategies.

A quality system surveillance audit by Fiske's registrar in 1999 revealed nonconforming procedures in element 4.2, Advanced Product Quality Planning and Control Plans. For assistance correcting the problem, Quality Manager Jacki Dusza contacted the Lake Erie Manufacturing Extension Partnership (LEMEP), a NIST MEP network affiliate, because she was already pleased with the resource center's internal auditor training programs. Fiske Brothers engaged LEMEP to revise and streamline the portion of the plans and processes that had failed the audit.

Solution: LEMEP team members conducted an ISO gap analysis to address the problem. The company applied lean techniques to solve the issue and regain compliance. Over the past few years, Fiske Brothers has worked with LEMEP and its host organization, EISC, Inc., on several projects. The company sent employees for training at EISC, and received hands-on training at its own facility. In mid-2000, Fiske worked with LEMEP on additional ISO/QS 9000 internal auditor training and an ISO 9001:2000 update. In 2001, Fiske Brothers sent teams of associates to LEMEP for Lean 101 and ISO 14001 internal auditor training. LEMEP has also assisted the company in finding ways to reduce energy costs, resulting in significant savings.

Results: Identified steam leaks and repaired boiler system to reduce natural gas costs by $20,000 per year. Decreased monthly energy costs by staggering motor starts throughout the day.
Addressed ISO 14001 gaps to comply with quality standards.
Participated in internal auditor training

Testimonial: *"The Lake Erie Manufacturing Extension Partnership walked us through all aspects of environmental management. It's nearly impossible to put a dollar value on LEMEP's knowledge and background in environmental applications, regulations, and standards."*

Jacki Dusza, Quality Manager

Activity Period: 2001-4

Back
View Stories By State | Center | Highlights | Search

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932110072

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- Automotive Lubricants
- Motor Oils
- Metal Working Fluids
- Spray Lubricants, Grease Cartridges and Tubes

ISO
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Registered
Quality System

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Lubrication Data Book

932110074

Contents

Multi-Purpose Synthetic Fluids

4-5 Air Compressor Fluids

6 Hydraulic Oils

7 Multi-Purpose Greases

8 Greases For Special Applications

9 Gear, Bearing & Recirculating Oils

10 Specialty Lubricants

11-13 Food Machinery Lubricants NSF H-1 Class

14 Automotive Lubricants
Motor Oils
Metal Working Fluids

15 Packaging Containers
Spray Lubricants, Grease Cartridges and Tubes

16 General Application Chart
Lubricant Classification Comparison Chart
Lubriplate District Managers

FJK000059

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PREVENTS WEAR and CORROSION
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LUBRIPLATE DIVISION / Fiske Brothers Refining Company

Corporate Headquarters / 129 Lockwood Street / Newark, NJ 07105
PHONE 800-733-4755 / FAX 973-589-4432 / FAX 800-347-5329

Midwest Office & Plant / 1500 Oakdale Ave. / Toledo, OH 43605
PHONE 419-691-2491 / FAX 419-693-3806 / FAX 800-347-5348

www.lubriplate.com or Email us at info@lubriplate.com

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Introduction

To: Our LUBRIPLATE Distributors and Consumers

Ladies and Gentlemen:

Thank you for your interest in LUBRIPLATE Lubricants. For 135 years, our Company has manufactured and sold only the highest quality lubricants to all types of industry. The advent of ISO-9000 has given us the opportunity to prove that "*we practice what we preach.*" As an ISO-9001 registered company, all of our employees have totally committed themselves to developing, manufacturing and selling quality products that meet and exceed your expectations. Our commitment to maintaining ISO-9001 certification provides us with a bright and strong future. We appreciate your consideration of LUBRIPLATE Lubricants. We realize that we must constantly work to earn and maintain your trust.

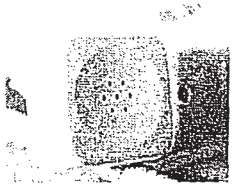
Sincerely,

Richard T. McCluskey

Richard T. McCluskey
President and Chief Executive Officer
e-mail: RichardM@lubriplate.com

ISO 9001 Registered Quality System

Complimentary Value Added Services Offered



Toll Free Technical Support Hotline:

Call our technical service center toll free at **800-347-5343** for answers to your lubrication questions by phone, or contact your nearest Lubriplate district manager (listed on back cover) or your local distributor representative for complete technical support.

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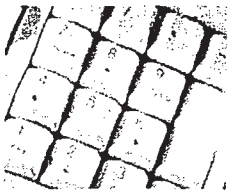
Complete Plant Surveys and Lubricant Inventory Consolidation:

Complete plant surveys by our professional staff of lubrication engineers are also available to determine your exact lubricant requirements and identify opportunities for lubricant inventory consolidation and lubricant application consolidation.

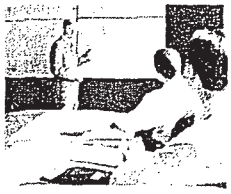


Lubrication Maintenance Software:

Lubriplate offers a PC based computer software program that puts your entire lubrication and maintenance schedules at your fingertips. This service is based on a complete survey of your entire plant. Contact Dan Moroses (Newark office) for details at **973-589-9150**.

No-Charge Oil / Fluid and Grease Analysis:

We encourage the use of our Fluid and Grease Analysis Program that is offered at no-charge on all Lubriplate products. Tests that are performed include: Viscosity, Acidity, Contamination (% sediment and % moisture,) Spectrochemical (PPM of wear metals and additives) ISO Cleaniiness (optional). An interpretation of the results is included along with suggested actions to take.

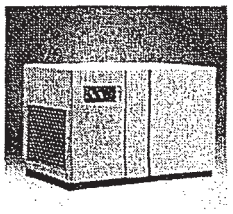


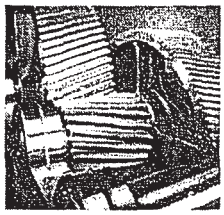
In Plant User Lubrication Training and Distributor Training:

Lubriplate offers training programs tailored to fit your needs. Our lubrication engineering training sessions are not glorified sales meetings. Rather, they discuss all facets of machinery lubrication, lubricants and correct lubricant selection. All seminars are graphically presented with overheads, and other support material. Available on-site at your facility or off-site in a conference room of a local hotel. Contact us at **800-733-4755** to arrange a no charge lubrication seminar.

Multi-Purpose Synthetic Fluids

Syn-Lube Series: Multi-Purpose, Polyalphaolefin (PAO)-Based Synthetic Fluids.





These multi-purpose polyalphaolefin (PAO) based, zinc-free fluids are formulated with state of the art additives. These fluids provide outstanding performance over extended drain intervals. Syn-Lube 22, 32, 46, 68 & 100 are recommended for many types of rotary screw and piston type air compressors, hydraulic systems, blowers, and turbine oil applications. Syn-Lube 150, 220, 320, 460, & 680 are recommended for gearboxes, bearings, chains and recirculating systems.

LUBRIPLATE PRODUCT	*PRODUCT PART NO.	ISO GRADE	SAE NO.	SAE GEAR OIL NO.	VIS. cSt @40°C/100°C	VIS. SUS 100°F/210°F	VIS. INDEX	FLASH POINT	FIRE POINT	AUTO-IGNITION TEMPERATURE	POUR POINT
SYN LUBE 22	L0968-	22	5W	-	23 / 5	129 / 44	138	420°F / 216°C	470°F / 243°C	>700°F / 371°C	-70°F / -57°C
SYN LUBE 32	L0970-	32	10	-	32 / 6	160 / 47	136	470°F / 243°C	505°F / 263°C	>700°F / 371°C	-70°F / -57°C
SYN LUBE 46	L0971-	46	20	75W	44 / 8	223 / 52	138	485°F / 250°C	550°F / 288°C	>700°F / 371°C	-65°F / -54°C
SYN LUBE 68	L0972-	68	20	80W	66 / 10	314 / 58	138	515°F / 267°C	580°F / 304°C	>700°F / 371°C	-60°F / -51°C
SYN LUBE 100	L0973-	100	30	85W	110 / 15	523 / 66	142	530°F / 277°C	590°F / 310°C	>700°F / 371°C	-55°F / -48°C
SYN LUBE 150	L0974-	150	40	80W-90	162 / 21	816 / -	154	540°F / 282°C	590°F / 310°C	-	-60°F / -51°C
SYN LUBE 220	L0975-	220	50	90	199 / 25	988 / -	154	540°F / 282°C	580°F / 304°C	-	-55°F / -48°C
SYN LUBE 320	L0976-	320	60	80W-140	310 / 35	1545 / -	157	540°F / 282°C	585°F / 307°C	-	-50°F / -46°C
SYN LUBE 460	L0977-	460	70	140	440 / 47	2191 / -	164	550°F / 288°C	585°F / 307°C	-	-50°F / -46°C
SYN LUBE 680	L0978-	680	-	-	705 / 68	3384 / -	170	555°F / 291°C	580°F / 304°C	-	-45°F / -43°C

*Syn Lube 22 through 100 is available in Pails & Drums. Syn Lube 150 through 680 is available in Jugs, Pails, 1/4 Drums & Drums. See page 15 for package part number suffix.

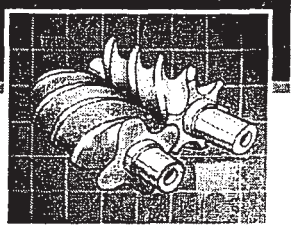
Synthetic High Temp Fluids 68 and 220: 100% Ester-Based Fluids.

These 100% ester based synthetic lubricants are recommended for use on bakery oven chains, drying oven chains, tenter frame chains, heat treating chains, paint curing oven chains and any other type of bearing/slide/gearbox applications where they are exposed to high operating temperatures and must maintain a clean lubricated surface. Available in ISO viscosity grades 68 and 220. Proven successful in applications in excess of 600°F / 316°C.

LUBRIPLATE PRODUCT	*PRODUCT PART NO.	ISO GRADE	SAE NO.	VIS. cSt @40°C/100°C	VIS. SUS @100°F/210°F	VIS. INDEX	FLASH POINT	FIRE POINT	POUR POINT
SYN High Temp 68	L0778-	68	20	74 / 11	364 / 58	109	554°F / 290°C	640°F / 338°C	-25°F / -32°C
SYN High Temp 220	L0780-	220	90	220 / 19	1112 / 102	92	525°F / 274°C	580°F / 304°C	-5°F / -21°C

*SYN High Temp 68 & 220 is available in Pails & Drums. See page 15 for more information and package part number suffix.

Synthetic Air Compressor Fluids



Syncool Series: Polyglycolester-Based Synthetic Compressor Fluids.

These polyglycolester-based, synthetic fluids are designed for rotary screw air compressors. They offer excellent heat transfer properties, low evaporation, high flash points, and outstanding oxidation resistance, eliminating varnish and sludge. Fluid change intervals are 8,000 hours under normal operating conditions.

LUBRIPLATE PRODUCT	*PRODUCT PART NO.	ISO GRADE	SAE NO.	VIS. cSt @40°C/100°C	VIS. SUS @100°F/210°F	VIS. INDEX	FLASH POINT	FIRE POINT	POUR POINT
SYNCOOL 32	L0965-	32	10	30 / 6	165 / 34	156	485°F / 252°C	550°F / 288°C	-60°F / -51°C
SYNCOOL 46	L0966-	46	20	47 / 9	232 / 55	180	470°F / 243°C	555°F / 290°C	-50°F / -46°C

*Syncool Series Fluids are available in Pails & Drums. See page 15 for more information and package part number suffix.

Synac Series: Diester-Based Synthetic Compressor Fluids

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These diester-based synthetic air compressor fluids are outstanding for applications where the fluid is subjected to high temperature and high stress conditions over extended drain intervals. Call our technical service line at 800-347-5343, for fluid and seal compatibility data and conversion procedures.

LUBRIPLATE PRODUCT	*PRODUCT PART NO.	ISO GRADE	SAE NO.	VIS. cSt @40°C/100°C	VIS. SUS @100°F/210°F	VIS. INDEX	FLASH POINT	FIRE POINT	POUR POINT
SYNAC 32	L0932-	32	10	31 / 6	155 / 46	135	450°F / 232°C	530°F / 277°C	-45°F / -43°C
SYNAC 46	L0933-	46	20	44 / 7	213 / 49	118	455°F / 235°C	535°F / 279°C	-35°F / -37°C
SYNAC 68	L0934-	68	20	64 / 8	311 / 53	98	455°F / 235°C	535°F / 279°C	-20°F / -29°C
SYNAC 100	L0935-	100	30	100 / 10	510 / 60	76	450°F / 232°C	530°F / 277°C	-15°F / -26°C
SYNAC 150	L0936-	150	40	147 / 13	754 / 71	71	540°F / 282°C	570°F / 299°C	-25°F / -32°C
SYNAC 220	L0937-	220	-	201 / 16	1003 / 83	74	545°F / 285°C	575°F / 302°C	-20°F / -29°C
SYNAC 320	L0938-	320	-	290 / 20	1496 / 99	77	475°F / 246°C	505°F / 263°C	-5°F / -20°C

*Synac Series Fluids are available in Pails & Drums. See page 15 for more information and package part number suffix.

AGMA-American Gear Manufacturers Association • ISO-International Standards Organization

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Petroleum-Based Air Compressor Oils

AC Series: Petroleum-Based, Anti-Wear Fortified Compressor Oils.

These petroleum-based air compressor oils are especially formulated to reduce carbon and varnish buildup. These oils contain fluid zinc to effectively fight friction and wear thus reducing heat and foaming. Available in six ISO grades.

LUBRIPLATE PRODUCT	*PRODUCT PART NO.	ISO GRADE	SAE NO.	VIS. cSt @40°C/100°C	VIS. SUS @100°F/210°F	VIS. INDEX	FLASH POINT	FIRE POINT	POUR POINT
AC-0	L0704-	32	10	31 / 6	160 / 46	136	415°F / 213°C	440°F / 227°C	-30°F / -34°C
AC-1	L0705-	46	20	42 / 7	213 / 49	120	420°F / 216°C	450°F / 232°C	-25°F / -32°C
AC-2	L0706-	68	20	64 / 8	309 / 54	106	430°F / 221°C	465°F / 241°C	-20°F / -29°C
AC-2A	L0707-	100	30	99 / 12	518 / 66	104	445°F / 229°C	480°F / 249°C	-15°F / -26°C
AC-3	L0708-	150	40	135 / 14	690 / 75	102	460°F / 238°C	510°F / 266°C	-10°F / -23°C
AC-4	L0710-	220	40	162 / 16	840 / 83	101	470°F / 243°C	525°F / 274°C	0°F / -18°C

*AC Series Air Compressor Oils are available in Bottles, Jugs, Pails, 1/4 Drums & Drums. See page 15 for more information and package part number suffix.

Turbine Oil 32: Petroleum-Based Oil For Centrifugal Air Compressors.

This high-performance, zinc-free fluid meets the requirements of most centrifugal air compressors. Provides excellent oxidation resistance.

LUBRIPLATE PRODUCT	*PRODUCT PART NO.	ISO GRADE	SAE NO.	VIS. cSt @40°C/100°C	VIS. SUS @100°F/210°F	VIS. INDEX	FLASH POINT	FIRE POINT	POUR POINT
Turbine Oil 32	L0942-	32	10	32 / 5	152 / 44	113	390°F / 199°C	440°F / 227°C	-10°F / -23°C

*Turbine Oil 32 is available in Drums. See page 15 for more information and the package part number suffix.

Refrigeration Compressor Oils: 68-N (Naphthenic) & 68-P (Semi-Synthetic):

These highly refined lubricants are formulated for use in refrigeration compressor systems utilizing ammonia, CFC (chlorofluorocarbon) and HCFC (hydrochlorofluorocarbon) refrigerants such as R-717, R-11, R-12, R-13, R-113, R-114, R-115, R-22, R-123, R-141b, R-142b, R-500, R-501 and R-502. They are not recommended for use with HFC (hydroflurocarbon) refrigerants such as HFC-134a (R-134a).

LUBRIPLATE PRODUCT	*PRODUCT PART NO.	ISO GRADE	SAE NO.	VIS. cSt @40°C/100°C	VIS. SUS @100°F/210°F	VIS. INDEX	FLASH POINT	FIRE POINT	POUR POINT
68-N	L0842-	68	20	65 / 7	330 / 48	28	385°F / 196°C	435°F / 224°C	-35°F / -37°C
68-P	L0843-	68	20	63 / 9	315 / 42	106	468°F / 242°C	510°F / 266°C	-38°F / -39°C

*Refrigeration Compressor Oils 68N & 68P are available in Pails & Drums. See page 15 for more information and the package part number suffix.

RCO-68: NSF H-1 Registered, Food Grade, Refrigeration Compressor Fluid. See page 11 for information on this product.

Heavy-Duty Hydraulic Oils

HO Series: Petroleum-Based, Heavy-Duty Hydraulic Oils.

Formulated for superior performance, this series contains fluid zinc to effectively reduce ring and vane wear. Excellent anti-rust, anti-corrosion, anti-foam and anti-oxidation properties. High aniline points ensure long seal life with fewer leaks. They can withstand elevated temperatures and high pressures over extended drain intervals. High natural V.I. provides stable viscosities over a wide temperature range. Excellent ISO cleanliness ratings.

LUBRIPLATE PRODUCT	*PRODUCT PART NO.	ISO VIS. GRADE	AGMA NO.	SAE GEAR OIL NO.	SAE NO.	VIS. cSt @40°C/100°C	VIS. SUS @100°F/210°F	VIS. INDEX	FLASH POINT	FIRE POINT	POUR POINT
HO-0	L0760-	32	-	-	10	31 / 6	160 / 46	136	415°F / 213°C	440°F / 227°C	-30°F / -34°C
HO-1	L0761-	46	1	75	20	42 / 7	213 / 49	120	420°F / 216°C	450°F / 232°C	-25°F / -32°C
HO-2	L0762-	68	2	80	20	64 / 8	309 / 54	106	430°F / 221°C	465°F / 241°C	-20°F / -29°C
HO-2A	L0763-	100	3	80	30	99 / 12	518 / 66	104	445°F / 229°C	480°F / 249°C	-15°F / -26°C
HO-3	L0764-	150	4	85	40	135 / 14	690 / 75	102	460°F / 238°C	510°F / 266°C	-10°F / 23°C
HO-4	L0765-	150	5	90	40	162 / 16	840 / 83	101	470°F / 243°C	525°F / 274°C	0°F / -18°C
HO-5	L0766-	320	6	90	60	281 / 22	1510 / 111	96	480°F / 249°C	565°F / 296°C	10°F / -12°C

*HO Series Oils are available in Jugs, Pails, 1/4 Drums & Drums. See page 15 for more information and the package part number suffix.

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Low Temp Hydraulic Oils: Petroleum-Based Oils For Low Temperature Applications.

LOW TEMPERATURE HYDRAULIC OILS: MV-HO Multi-Viscosity, Special Low Pour, and Minus 70 Hydraulic Oil are for low temperature applications.

LUBRIPLATE PRODUCT	*PRODUCT PART NO.	ISO VIS. GRADE	AGMA NO.	SAE GEAR OIL NO.	SAE NO.	VIS. cSt @40°C/100°C	VIS. SUS @100°F/210°F	VIS. INDEX	FLASH POINT	FIRE POINT	POUR POINT
MV-HO	L0777-	32	-	75	5W-20	35 / 8	186 / 53	199	350°F / 177°C	380°F / 193°C	-50°F / -46°C
Low Pour	L0767-	22	-	75W	5W-20	25 / 7	126 / 46	210	315°F / 157°C	350°F / 177°C	-70°F / -57°C
Minus 70	L0769-	15	-	75W	5W-20	16 / 6	84 / 45	340	200°F / 93°C	220°F / 104°C	-70°F / -57°C

*Low Temp Hydraulic Oils are available in Jugs, Pails, 1/4 Drums & Drums. See page 15 for more information and the package part number suffix.

AGMA American Gear Manufacturers Association, ISO International Standards Organization

932110078

SYNXTREME HD-2: High Performance, Synthetic, Calcium Sulfonate Complex Grease.

A high performance, multi-purpose, synthetic, calcium sulfonate complex grease. Delivers outstanding shear stability, excellent anti-wear (AW) and extreme pressure protection. Highly water resistant. Superior oxidation resistance for long lasting protection. Excellent high and low temperature performance.

LUBRIPLATE PRODUCT	*PRODUCT PART NO.	NLGI GRADE	OIL VIS. cSt / SUS @40°C / 100°F	WORKED PENETRATION	ASTM DROP POINT	APPROX. COLD TEST	AW/EP	RUST/OXID. ADDITIVES	WATER RESISTANT	APPLICATIONS / COMMENTS
SYNX HD-2	L0401-	2	100 / 500	265 / 295	700°F / 371°C	-40°F / -40°C	AW/EP	YES	YES	Heavy-duty general-purpose grease.

*SYNXTREME HD-2 is available in Cartidges, Pails, 1/4 Drums & Drums. See page 15 for package part number suffix.

SYN-1600 Series: High Performance, Polyalphaolefin (PAO)-Based Synthetic Greases.

Manufactured with 100% polyalphaolefin (PAO) base fluids and thickened with lithium-complex, for superior oxidation stability, better wear protection and significantly better operating temperature ranges. Fortified with additives to prevent rust and corrosion and to reduce grease bleed.

LUBRIPLATE PRODUCT	*PRODUCT PART NO.	NLGI GRADE	OIL VIS. cSt / SUS @40°C / 100°F	WORKED PENETRATION	ASTM DROP POINT	APPROX. COLD TEST	AW/EP	RUST/OXID. ADDITIVES	WATER RESISTANT	APPLICATIONS / COMMENTS
SYN-1600	L0300-	0	218 / 1009	355 / 385	500°F / 260°C	-50°F / -46°C	AW/EP	YES	YES	Centralized greasing systems.
SYN-1601	L0301-	1	218 / 1009	310 / 340	500°F / 260°C	-50°F / -56°C	AW/EP	YES	YES	Multi-purpose, industrial applications.
SYN-1602	L0302-	2	446 / 2066	265 / 295	500°F / 260°C	-45°F / -43°C	AW/EP	YES	YES	Multi-purpose, heavy-duty applications.

*SYN-1600 Series Greases are available in Pails, 1/4 Drums & Drums, SYN-1601 & SYN-1602 are also available in Cartridges. See page 15 for package part number suffix.

1500 Series: Lithium Complex Greases.

These multi-purpose lubricants can withstand higher temperatures than traditional lithium greases. They provide high film strength, excellent shear stability, long lubricant life, and exceptional anti-wear properties. Available in four NLGI densities for a variety of applications. No. 1552 is NLGI GC-LB certified.

LUBRIPLATE PRODUCT	*PRODUCT PART NO.	NLGI GRADE	OIL VIS. cSt / SUS @40°C / 100°F	WORKED PENETRATION	ASTM DROP POINT	APPROX. COLD TEST	AW/EP	RUST/OXID. ADDITIVES	WATER RESISTANT	APPLICATIONS / COMMENTS
1500	L0163-	00	200 / 1100	400 / 430	-	-10°F / -23°C	AW/EP	YES	YES	Leaky Gear Cases. Trailer wheel bearings.
1550	L0164-	0	200 / 1100	355 / 385	450°F / 232°C	-10°F / -23°C	AW/EP	YES	YES	Centralized greasing systems.
1551	L0165-	1	200 / 1100	310 / 340	470°F / 243°C	-5°F / -21°C	AW/EP	YES	YES	Ind./const./mining equip.
1552	L0166-	2	200 / 1100	265 / 295	>500°F / 260°C	0°F / -18°C	AW/EP	YES	YES	Ind./const./mining equip., adverse conditions.

*1500 Series Greases are available in Pails, 1/4 Drums & Drums, No. 1551 & No. 1552 are also available in Cartridges. See page 15 for package part number suffix.

No. 1200-2: Heavy-Duty, General Purpose, Lithium Type Grease.

This is an excellent, heavy-duty, general purpose, lithium type grease for both industrial and automotive applications. It provides a high film strength, great shear stability, anti-wear and extreme pressure additives.

LUBRIPLATE PRODUCT	*PRODUCT PART NO.	NLGI GRADE	OIL VIS. cSt / SUS @40°C / 100°F	WORKED PENETRATION	ASTM DROP POINT	APPROX. COLD TEST	AW/EP	RUST/OXID. ADDITIVES	WATER RESISTANT	APPLICATIONS / COMMENTS
1200-2	L0102-	2	183 / 950	265 / 295	400°F / 204°C	-25°F / -32°C	AW/EP	YES	YES	General-purpose grease.

*1200-2 is available in Cartidges, Cans, Pails, 1/4 Drums & Drums. See page 15 for package part number suffix.

1240 Series: Lithium-Polymer Type, Viscous, Non-corrosive, Extreme Pressure Greases.

Highly water resistant and tacky, they are designed for applications where the grease is subjected to heavy pressure and shock loads. This series is available in 3 NLGI densities for a wide range of applications and temperatures.

LUBRIPLATE PRODUCT	*PRODUCT PART NO.	NLGI GRADE	OIL VIS. cSt / SUS @40°C / 100°F	WORKED PENETRATION	ASTM DROP POINT	APPROX. COLD TEST	AW/EP	RUST/OXID. ADDITIVES	WATER RESISTANT	APPLICATIONS / COMMENTS
1240	L0105-	0	237 / 1250	355 / 385	400°F / 204°C	0°F / -18°C	AW/EP	YES	YES	Centralized systems, const. industrial equip.
1241	L0104-	1	237 / 1250	310 / 340	400°F / 204°C	5°F / -15°C	AW/EP	YES	YES	Centralized or hand greasing.
1242	L0106-	2	237 / 1250	265 / 295	425°F / 218°C	15°F / -9°C	AW/EP	YES	YES	Heavy-duty construction equipment.

*1240 Series Greases are available in Cartidges, Cans, Pails, 1/4 Drums & Drums. See page 15 for package part number suffix.

No. 1444: Tacky, Aluminum Complex Type Grease.

Specifically formulated for heavy-duty construction and mining equipment. Excellent for slow to moderate speed bearings and chains that are subjected to heat, steam and water. NLGI GC-LB certified.

LUBRIPLATE PRODUCT	*PRODUCT PART NO.	NLGI GRADE	OIL VIS. cSt / SUS @40°C / 100°F	WORKED PENETRATION	ASTM DROP POINT	APPROX. COLD TEST	AW/EP	RUST/OXID. ADDITIVES	WATER RESISTANT	APPLICATIONS / COMMENTS
1444	L0227-	2	626 / 3300	265 / 295	500°F / 260°C	10°F / -12°C	AW/EP	YES	YES	Heavy-duty construction, mining equip.

*No. 1444 is available in Cartridges, Pails, 1/4 Drums & Drums. See page 15 for package part number suffix.

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No. 3000 and 3000-W: Tacky, Moly-Lithium Type, Extreme Pressure Greases.

Provides a durable, tenacious, adhesive film to protect against water, rust, and corrosive contaminants. 3000-W is for cold ambient temperatures.

LUBRIPLATE PRODUCT	*PRODUCT PART NO.	NLGI GRADE	OIL VIS. cSt / SUS @40°C / 100°F	WORKED PENETRATION	ASTM DROP POINT	APPROX. COLD TEST	AW/EP	RUST/OXID. ADDITIVES	WATER RESISTANT	APPLICATIONS / COMMENTS
3000	L0108-	2	237 / 1250	265 / 295	450°F / 232°C	0°F / -18°C	AW/EP	YES	YES	Heavy-duty, Construction/ mining equip.
3000-W	L0107-	1	60 / 315	310 / 340	375°F / 191°C	-30°F / -34°C	AW/EP	YES	YES	Heavy-duty equip. Cold weather conditions.

*3000 Series Greases are available in Cartidges, Cans, Pails, 1/4 Drums & Drums See page 15 for package part number suffix.

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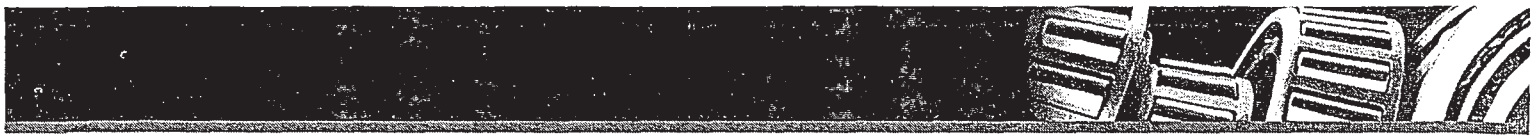


630 Series: Lithium Based Multi-purpose Greases.

These popular lithium type, greases are excellent for a wide range of lubrication demands, thus reducing the need to carry large grease inventories. All have high film strength, exceptional resistance to water, steam, and other adverse conditions. Available in 4 NLGI densities for a variety of applications.

LUBRIPLATE PRODUCT	*PRODUCT PART NO.	NLGI GRADE	OIL VIS. cSt/SUS @40°C/100°F	WORKED PENETRATION	ASTM DROP POINT	APPROX. COLD TEST	AW/EP	RUST/OXID. ADDITIVES	WATER RESISTANT	APPLICATIONS / COMMENTS
630-AAA	L0068-	0	151 / 800	355 / 385	360°F / 182°C	-10°F / -23°C	AW/EP	YES	YES	Centralized greasing systems.
630-AA	L0067-	1	135 / 750	310 / 340	380°F / 193°C	0°F / -18°C	AW/EP	YES	YES	Automatic dispensers,Centralized systems.
630-2	L0072-	2	135 / 750	265 / 295	380°F / 193°C	0°F / -18°C	AW/EP	YES	YES	Multi-purpose, general greasing, bearings.
630-A	L0066-	2.5	135 / 750	235 / 260	390°F / 199°C	10°F / -12°C	AW/EP	YES	YES	Cup type lube, water pumps

*630 Series Greases are available in Cartidges, Tubes, Cans, Pails, 1/4 Drums & Drums. See page 15 for package part number suffix.

730 Series: High Performance, Aluminum Complex Type Greases.

This series provides high load carrying ability and anti-wear protection with high resistance to water, steam, and other corrosive action. Available in 3 NLGI densities for a wide range of applications and temperatures. No. 730-2 is NLGI GC-LB certified.

LUBRIPLATE PRODUCT	*PRODUCT PART NO.	NLGI GRADE	OIL VIS. cSt/SUS @40°C/100°F	WORKED PENETRATION	ASTM DROP POINT	APPROX. COLD TEST	AW/EP	RUST/OXID. ADDITIVES	WATER RESISTANT	APPLICATIONS / COMMENTS
730-0	L0083-	0	151 / 800	355 / 385	465°F / 241°C	-10°F / -23°C	AW/EP	YES	YES	Centralized systems adverse conditions.
730-1	L0084-	1	151 / 800	310 / 340	540°F / 282°C	-10°F / -23°C	AW/EP	YES	YES	Industrial / const. equip. adverse conditions.
730-2	L0085-	2	151 / 800	265 / 295	560°F / 293°C	-10°F / -23°C	AW/EP	YES	YES	Industrial / const. equip. adverse conditions.

*730 Series Greases are available in Cans, Pails, 1/4 Drums & Drums, No. 730-2 is also available in Cartridges. See page 15 for package part number suffix.

930 Series: High Temperature, Bentone Type Greases.

Formulated for higher temperature applications. They are shear stable, multi-purpose greases for both plain and anti-friction bearings. This series works well up to 375°F / 191°C and for short intervals up to 400°F / 204°C Available in 4 NLGI densities for a wide range of applications.

LUBRIPLATE PRODUCT	*PRODUCT PART NO.	NLGI GRADE	OIL VIS. cSt/SUS @40°C/100°F	WORKED PENETRATION	ASTM DROP POINT	APPROX. COLD TEST	AW/EP	RUST/OXID. ADDITIVES	WATER RESISTANT	APPLICATIONS / COMMENTS
930-AAA	L0098-	0	167 / 900	355 / 385	NON-MELT	-10°F / -23°C	AW/EP	YES	YES	Centralized, enclosed gears, no seals.
930-AA	L0096-	1	135 / 750	310 / 340	NON-MELT	0°F / -18°C	AW/EP	YES	YES	High temperatures, automatic dispensers.
930-2	L0100-	2	135 / 750	265 / 295	NON-MELT	10°F / -12°C	AW/EP	YES	YES	Multi-purpose, high temperatures.
930-A	L0095-	2.5	135 / 750	235 / 260	NON-MELT	20°F / -7°C	AW/EP	YES	YES	High temperatures, grease cups.

*930 Series Greases are available in Cartidges, Tubes, Cans, Pails, 1/4 Drums & Drums. See page 15 for package part number suffix.

100 & 130 Series: Calcium Type Greases.

These water resistant greases are designed for plain bearings, cams, slides, and other light-duty applications where temperatures do not exceed 170°F. / 77°C.

LUBRIPLATE PRODUCT	*PRODUCT PART NO.	NLGI GRADE	OIL VIS. cSt/SUS @40°C/100°F	WORKED PENETRATION	ASTM DROP POINT	APPROX. COLD TEST	AW/EP	RUST/OXID. ADDITIVES	WATER RESISTANT	APPLICATIONS / COMMENTS
105	L0034-	0	58 / 300	355 / 385	170°F / 77°C	-30°F / -34°C	AW	YES	YES	Cams, slides, motor assembly.
107	L0036-	1	58 / 300	310 / 340	180°F / 82°C	-10°F / -23°C	AW	YES	YES	Non-staining concrete form release.
110	L0037-	2.5	58 / 300	235 / 260	190°F / 88°C	-10°F / -23°C	AW	YES	YES	Brake lubricant. Not for disc brakes.
115	L0040-	4	58 / 300	185 / 215	210°F / 99°C	10°F / -12°C	AW	YES	YES	Water pump lubricant.
130-AA	L0044-	1	135 / 750	310 / 340	190°F / 88°C	10°F / -12°C	AW/EP	YES	YES	Plain Bearings, chassis lube.
130-A	L0043-	2.5	135 / 750	235 / 260	200°F / 93°C	20°F / -7°C	AW/EP	YES	YES	Cams, guides, open gears.

*100 & 130 Series Greases are available in Tubes, Cans, Pails, 1/4 Drums & Drums. See page 15 for package part number suffix.

Multi-Purpose Greases For Special Conditions

High Temp: Multi-Purpose, High Temperature, Bentone Type Grease.

Multi-Purpose, for high temperature applications. Non-melt type, workable from 40°F / 4°C to 500°F / 260°C with frequent lube intervals.

LUBRIPLATE PRODUCT	*PRODUCT PART NO.	NLGI GRADE	OIL VIS. cSt/SUS @40°C/100°F	WORKED PENETRATION	ASTM DROP POINT	APPROX. COLD TEST	AW/EP	RUST/OXID. ADDITIVES	WATER RESISTANT	APPLICATIONS / COMMENTS
HIGH TEMP	L0161-	2	497 / 2600	265 / 295	NON-MELT	10°F / -12°C	AW	YES	YES	Multi-Purpose, high temp. applications

*HIGH TEMP is available in Cartidges, Cans, Pails, 1/4 Drums & Drums. See page 15 for package part number suffix.

FJK000064

Low Temp: Multi-Purpose, Anhydrous Calcium Based Grease For Cold Temperatures.

Excellent multi-purpose low temperature grease. For cold temperature applications down to -60°F / -51°C.

LUBRIPLATE PRODUCT	*PRODUCT PART NO.	NLGI GRADE	OIL VIS. cSt/SUS @40°C/100°F	WORKED PENETRATION	ASTM DROP POINT	APPROX. COLD TEST	AW/EP	RUST/OXID. ADDITIVES	WATER RESISTANT	APPLICATIONS / COMMENTS
LOW TEMP	L0172-	1.5	16 / 90	290 / 320	280°F / 138°C	-60°F / -51°C	AW	YES	YES	Cold temps., multi-purpose, fifth wheels.

*LOW TEMP is available in Cartidges, Tubes, Cans, Pails, 1/4 Drums & Drums. See page 15 for package part number suffix.

NLGI - National Lubricating Grease Institute ASTM - American Society of Testing & Materials AW - Anti-Wear EP - Extreme Pressure

932110080

Greases For Special Applications / Conditions

MAG-1 & MAG-00: Lithium Polymer Type Greases For Wide Range Of Temperatures.

These multi-purpose, lithium polymer greases have a wide operating temperature range for variety of applications from -60°F / -51°C up to 300°F / 149°C.

LUBRIPLATE PRODUCT	*PRODUCT PART NO.	NLGI GRADE	OIL VIS. cSt / SUS @40°C / 100°F	WORKED PENETRATION	ASTM DROP POINT	APPROX. COLD TEST	AW/EP	RUST/OXID. ADDITIVES	WATER RESISTANT	APPLICATIONS / COMMENTS
MAG-1	L0189-	1	23 / 120	310/340	375°F / 191°C	-60°F / -51°C	AW/EP	YES	YES	Cold & wide temp. range, multi-purpose.
MAG-00	L0186-	00	23 / 120	SEMI-FLUID	340°F / 171°C	-60°F / -51°C	AW/EP	YES	YES	Centralized systems, leaking gearboxes.

*MAG-1 is available in Cartidges, Cans, Pails, 1/4 Drums & Drums. MAG-00 is available in Bottles, Jugs. Pails, 1/4 Drums & Drums. See page 15 for package part number suffix.

Aero: Lithium Based, Low Temperature Grease.

For cold temperature applications down to -60°F. / -51°C. Provides low-torque start-up capability, excellent corrosion and oxidation resistance and wide compatibility with metals, plastic, and rubber. Excellent for garage door mechanisms.

LUBRIPLATE PRODUCT	*PRODUCT PART NO.	NLGI GRADE	OIL VIS. cSt / SUS @40°C / 100°F	WORKED PENETRATION	ASTM DROP POINT	APPROX. COLD TEST	AW/EP	RUST/OXID. ADDITIVES	WATER RESISTANT	APPLICATIONS / COMMENTS
AERO	L0113-	1	19 / 100	310 / 340	350°F / 177°C	-60°F / -51°C	AW	YES	YES	Cold temps., trailer landing gears, garages.

*AERO is available in Tubes, Cans, Pails, 1/4 Drums, & Drums. See page 15 for package part number suffix.

No. 5555: Anhydrous Calcium, Semi-Fluid Type Lubricant.

This semi-fluid type lubricant is made for automatic lubricating systems operating in cold environments.

LUBRIPLATE PRODUCT	*PRODUCT PART NO.	NLGI GRADE	OIL VIS. cSt / SUS @40°C / 100°F	WORKED PENETRATION	ASTM DROP POINT	APPROX. COLD TEST	AW/EP	RUST/OXID. ADDITIVES	WATER RESISTANT	APPLICATIONS / COMMENTS
5555	L0109-	000	16 / 90	SEMI-FLUID	315°F / 157°C	-60°F / -51°C	AW	YES	YES	Automatic lube systems, light oil, cold temps.

*No. 5555 is available in Bottles, Jugs, Pails. 1/4 Drums, & Drums. See page 15 for package part number suffix.

EMB: Lithium Polymer Type, High Speed Electric Motor Bearing Grease.

Developed specifically for the lubrication of electric motor bearings, fans and other high speed grease type ball and roller bearings.

LUBRIPLATE PRODUCT	*PRODUCT PART NO.	NLGI GRADE	OIL VIS. cSt / SUS @40°C / 100°F	WORKED PENETRATION	ASTM DROP POINT	APPROX. COLD TEST	AW/EP	RUST/OXID. ADDITIVES	WATER RESISTANT	APPLICATIONS / COMMENTS
EMB	L0148-	2	100 / 500	265 / 295	390°F / 199°C	-20°F / -29°C	AW/EP	YES	YES	Electric motor bearings, fans, air handlers.

*EMB is available in Cartridges. Cans, Pails, 1/4 Drums & Drums. See page 15 for package part number suffix.

Poly HP-2: Polyurea-Thickened Type Grease.

Formulated with the highest quality paraffinic base oils available. Excellent for high-speed electric motor bearings and other industrial applications.

LUBRIPLATE PRODUCT	*PRODUCT PART NO.	NLGI GRADE	OIL VIS. cSt / SUS @40°C / 100°F	WORKED PENETRATION	ASTM DROP POINT	APPROX. COLD TEST	AW/EP	RUST/OXID. ADDITIVES	WATER RESISTANT	APPLICATIONS / COMMENTS
Poly HP-2	L0191-	2	128 / 650	265 / 295	500°F / 260°C	-	AW	YES	YES	Electric motor bearings.

*Poly HP-2 is available in Cartridges, Pails & 1/4 Drums. See page 15 for package part number suffix.

Greases For Open Gearing

Gear Shield Series: Lithium Based, Open Gear Grease.

Made for all types of open gears. Available in 4 formulas for a variety of conditions and temperatures. Gear Shield Extra Heavy is for adverse conditions.

LUBRIPLATE PRODUCT	*PRODUCT PART NO.	NLGI GRADE	OIL VIS. cSt / SUS @40°C / 100°F	WORKED PENETRATION	ASTM DROP POINT	APPROX. COLD TEST	AW/EP	RUST/OXID. ADDITIVES	WATER RESISTANT	APPLICATIONS / COMMENTS
Gear Shield	L0150-	1	237 / 1250	310 / 340	350°F / 177°C	-20°F / -29°C	AW	YES	YES	Open gears, normal conditions.
G.S. Heavy	L0151-	2	432 / 2000	265 / 295	365°F / 185°C	10°F / -12°C	AW	YES	YES	Open gears, normal conditions.
G.S. Low Temp	L0173-	2	58 / 300	265 / 295	400°F / 204°C	-20°F / -29°C	AW	YES	YES	Open gears, slides, fifth wheels, low temps.
G.S. X-Heavy	L0152-	2.5	432 / 2000	235 / 260	370°F / 188°C	20°F / -7°C	AW	YES	YES	Open gears, adverse conditions.

*Gear Shield Series Greases are available in Cans, Pails, 1/4 Drums & Drums. Gear Shield X-Heavy also available in Aerosol and Caulk Type Cartridges. See page 15 for package part number suffix.

FJK000065

No. 176: Inorganic / Organic, Open Gear Grease for Centralized Systems. No Solvents.

This adhesive, semi-fluid grease is for all types of open gears lubricated by centralized systems. Provides good pumpability without the use of harmful solvents.

LUBRIPLATE PRODUCT	*PRODUCT PART NO.	NLGI GRADE	OIL VIS. cSt / SUS @40°C / 100°F	WORKED PENETRATION	ASTM DROP POINT	APPROX. COLD TEST	AW/EP	RUST/OXID. ADDITIVES	WATER RESISTANT	APPLICATIONS / COMMENTS
No. 176	L0054-	00	313 / 1650	400 / 430	NON-MELT	5°F / -15°C	AW/EP	YES	YES	Open gears lubricated centralized systems.

*No. 176 is available in Pails, 1/4 Drums & Drums. See page 15 for package part number suffix.

NLGI - National Lubricating Grease Institute. ASTM - American Society of Testing & Materials. AW - Anti-Wear EP - Extreme Pressure

932110081

Petroleum Based, Gear, Bearing & Recirculating Oils

SPO Series: Extra-Duty Anti-Wear, Rust & Oxidation Inhibited (R&O) Gear and Bearing Oils.

SPO series of petroleum based oils is specifically designed for industrial applications such as gear cases, bearings, chains, machine ways, and general oiling. These tacky lubricants will provide anti-wear lubrication for high sliding action in worm gears. They are also excellent for bevel, helical, and spur gears. SPO Lubes can be used with silver alloy, copper, and copper alloy bearings. Excellent for use in high moisture and high temperature applications. Provides performance comparable to synthetic lubricants.

SPO-MG is a semi-synthetic lubricant formulated with a unique blend of synthetic hydrocarbon and mineral oil base stocks. This base stock combination results in exceptional thermal and oxidation stability, extended drain intervals and improved perfomance. Meets the viscosity requirements of SAE 80W and SAE 140 gear oils.

LUBRIPLATE PRODUCT	*PRODUCT PART NO.	ISO VIS. GRADE	AGMA NO.	SAE GEAR OIL NO.	SAE NO.	VIS. cSt @40°C/100°C	VIS. SUS @100°F/210°F	VIS. INDEX	FLASH POINT	FIRE POINT	POUR POINT
SPO-222	L0242-	68	2	80W	20W	63 / 9	317 / 55	109	415°F / 213°C	465°F / 241°C	-30°F / -34°C
SPO-233	L0243-	100	3	80W	30	91 / 11	464 / 63	103	450°F / 232°C	500°F / 260°C	-35°F / -37°C
SPO-244	L0244-	150	4	90	40	135 / 14	685 / 75	102	460°F / 238°C	525°F / 274°C	-25°F / -32°C
SPO-255	L0245-	220	5	90	50	200 / 19	1044 / 95	103	465°F / 241°C	560°F / 293°C	-10°F / -23°C
SPO-266	L0246-	320	6	90	60	280 / 23	1476 / 115	102	470°F / 243°C	570°F / 299°C	10°F / -12°C
SPO-277	L0247-	460	7	140	70	432 / 30	2260 / 148	101	475°F / 246°C	580°F / 304°C	15°F / -9°C
SPO-288	L0248-	680	8	250	-	628 / 38	3314 / 184	98	425°F / 218°C	525°F / 274°C	10°F / -12°C
SPO-299	L0249-	1000	8A	250	-	950 / 50	5100 / 245	99	450°F / 232°C	505°F / 263°C	10°F / -12°C
SPO-MG	L0252-	220	6	80W-140	60	237 / 25	1223 / 123	120	425°F / 218°C	465°F / 241°C	-25°F / -32°C

*SPO Series Oils are available in Bottles, Jugs, Pails, 1/4 Drums & Drums. See page 15 for package part number suffix.

APG Series: Heavy-Duty, Extreme Pressure (EP) Petroleum-Based Gear Oils.

These heavy-duty, extreme pressure type oils were developed to meet gear oil needs of most automotive, truck, heavy equipment and industrial gear boxes requiring an extreme pressure type oil. Meets military specification MIL-PRF-2105E and MIL-L-2105D and API categories GL-3, GL-4, GL-5, MT-1.

LUBRIPLATE PRODUCT	*PRODUCT PART NO.	ISO VIS. GRADE	AGMA NO.	SAE GEAR OIL NO.	SAE NO.	VIS. cSt @40°C/100°C	VIS. SUS @100°F/210°F	VIS. INDEX	FLASH POINT	FIRE POINT	POUR POINT
APG-75	L0116-	32	-	75W	10W	31 / 6	152 / 44	113	350°F / 177°C	365°F / 185°C	-55°F / -48°C
APG-80	L0117-	68	2 EP	80W	20	67 / 9	356 / 58	113	380°F / 193°C	440°F / 227°C	-35°F / -37°C
APG 80W-90	L0030-	100	3 EP	80W-90	40	124 / 15	650 / 84	121	380°F / 193°C	410°F / 210°C	-35°F / -37°C
APG-90	L0118-	150	5 EP	90	50	156 / 16	816 / 86	112	395°F / 202°C	440°F / 227°C	-20°F / -29°C
APG 80W-140	L0124-	320	6 EP	80W-140	60	248 / 25	1300 / 125	120	380°F / 193°C	410°F / 210°C	-25°F / -32°C
APG-140	L0119-	460	7 EP	85W-140	70	410 / 31	2220 / 152	107	405°F / 207°C	440°F / 227°C	0°F / -18°C
APG-250	L0120-	680	8 EP	250	-	701 / 42	3700 / 203	100	390°F / 199°C	450°F / 232°C	5°F / -15°C

*APG Series Oils are available in Bottles, Jugs, Pails, 1/4 Drums & Drums, APG 90 is also available in Tubes. See page 15 for package part number suffix.

CP-8A: Compounded (CP) Petroleum-Based Gear Oil.

This non-EP oil is manufactured with acidless tallow as required to meet AGMA specification 8A Comp. It is recommended for use in cone drives and double-enveloping worm gear drives.

LUBRIPLATE PRODUCT	*PRODUCT PART NO.	ISO VIS. GRADE	AGMA NO.	SAE GEAR OIL NO.	SAE NO.	VIS. cSt @40°C/100°C	VIS. SUS @100°F/210°F	VIS. INDEX	FLASH POINT	FIRE POINT	POUR POINT
CP-8A	L0141-	1000	8A COMP	250	-	950 / 47	4950 / 230	95	550°F / 288°C	600°F / 316°C	35°F / 2°C

*CP-8A is available in Pails, 1/4 Drums & Drums. See page 15 for package part number suffix.

Machine Tool Oils: Petroleum-Based Machine Oils.

FJK000066

Compounded to impart a unique load carrying film, exceptional lubricity, and anti-friction properties not found in conventional oils of the same viscosity.

LUBRIPLATE PRODUCT	*PRODUCT PART NO.	ISO VIS. GRADE	AGMA NO.	SAE GEAR OIL NO.	SAE NO.	VIS. cSt @40°C/100°C	VIS. SUS @100°F/210°F	VIS. INDEX	FLASH POINT	FIRE POINT	POUR POINT
NO. 0	L0000-	7-10	-	-	5W	9 / -	56 / 34	-	275°F / 135°C	295°F / 146°C	-60°F / -51°C
NO. 1	L0002-	22	-	-	10W	22 / -	115 / 38	-	345°F / 174°C	360°F / 182°C	-50°F / -46°C
NO.2	L0003-	46	1	75W	20	45 / -	228 / 45	96	365°F / 185°C	385°F / 196°C	-30°F / -34°C
NO. 3V	L0009-	68	2	80W	20	62 / -	326 / 48	98	380°F / 193°C	395°F / 202°C	-25°F / -32°C
NO. 3	L0005-	100	3	80W	30	92 / -	490 / 58	98	390°F / 199°C	410°F / 210°C	-25°F / -32°C
NO. 4	L0011-	150	4	90	40	162 / 13	854 / 72	98	420°F / 216°C	450°F / 232°C	-20°F / -29°C
NO. 8	L0014-	460	7	140	70	432 / 28	2300 / 142	90	435°F / 224°C	515°F / 268°C	0°F / -18°C

*Machine Tool Oils are available in Bottles, Jugs, Pails, 1/4 Drums & Drums. See page 15 for package part number suffix.

AGMA-American Gear Manufacturers Association. ISO-International Standards Organization.

932110082

Specialty Greases

X-357: A special extreme pressure moly-fortified lubricant that penetrates and adheres, water resistant. Use on pintle hooks, slide axles, open gears, fifth wheels. Product Part No. L0149-. See page 15 for packaging information.

NO. 777: This special grease lubricant has been approved by Ford Motor Co. specification ESF-M1C-26-A for use as a starter motor shaft lubricant. Also approved for starter drives on Evinrude / Johnson outboards. Product Part No. L0081-. See page 15 for packaging information.

NO. 105 Motor Assembly Grease: A smooth, light bodied, water-repellent grease that is applied to engine bearings, cylinder walls and other moving internal engine parts. Provides lubrication and protects parts from scuffing and scoring during initial start up before the motor oil circulates. Prevents rust on newly machined engine parts. Will not clog filters or oil lines. Product Part No. L0034-. See page 15 for packaging information.

NO. 107 Concrete Form Release: This soft grease can easily be sprayed on form contact surfaces providing immediate release once the concrete is set. White in color, it will not stain the casting. Product Part No. L0036-. See page 15 for packaging information.

DS-ES Electric Switch Lubricant: Developed for the lubrication of electrical switch contacts. Used extensively in the automotive industry for switches, sockets, and wiring harness connectors. Excellent oxidation resistance and compatibility with metal, plastic and rubber. Product Part No. L0137-. See page 15 for packaging information.

GR-132 Portable Tool Grease: A light viscosity oil combined with a lithium combination thickener makes GR-132 ideal for applications where fluid friction must be kept to a minimum. Ideal for the small gear cases in portable tools. Product Part No. L0158-. See page 15 for packaging information.

Brick Grease: This NLGI No. 6 grade sodium-type grease was developed for the lubrication of open slot and open well type bearings where the brick grease rides directly on the bearing shaft. Package / case 4/10 lb. Bricks 43 lbs. net. Part No. L0131-038.

Lithium Brick Grease: This NLGI No. 6 grade lithium grease is recommended for open slot and open well type bearings where the brick grease rides directly on the bearing shaft. Package / case 4/10 lb. Bricks, Part No. L0132-038.

5 JK000067

Specialty Oils & Fluids

Air Tool Lubricant: Designed for both rotary and reciprocating types of air tools such as hammers, impact wrenches, air motors, grinders, reamers and drills. Proven excellent air line lubricant, used effectively on lift cylinders of can fillers in breweries, bottling plants. Removes gumming and sludge. Product Part No. L0713-.

Jack Oil: A heavy-duty, high pressure hydraulic oil, anti-wear and anti-corrosion additives. Product Part No. L0768-.

Bar & Chain Oil: Formulated with special anti-wear additives to provide maximum protection to the bar and chain of all makes of chain saws. SAE grade 20. Good adhesion properties provide excellent resistance to "throw off" action. Part No. L0720-.

Chain & Cable Fluid / Chain & Cable Heavy: Superior penetrating oils that clean and lubricate without gumming. Ideal for wire rope, chains, cables, hinges, springs, slides and other moving metal parts. Protects bright work. Excellent oils to loosen rusty nuts and bolts. Ideal for tapping and drilling. Part Nos. L0135- and L0136-. See page 15 for packaging information and package part number suffix.

Super Chain Oil: A heavy polymer, tenacious, high flash point oil containing micro-fine graphite. Excellent for bakery ovens, drying ovens where temperatures do not exceed 450°F. / 232°C. Works well on floor chain conveyors, car wash lines, assembly lines. Flash point 520°F. / 271°C. Fire point 600°F. / 316°C. Product Part No. L0857-. See page 15 for packaging information and package part number suffix.

Synthetic Worm Gear Lubricant: This high performance, ISO 460 grade, synthetic gear lubricant is recommended for all types of worm gear reducers. Product Part No. L0981-. See page 15 for packaging information and package part number suffix.

Syn Flush: This premium quality, pure synthetic fluid is designed to clean and dissolve varnish deposits in air compressors while the compressor is in operation. It is compatible with petroleum/mineral oils as well as all Lubriplate Synthetic Compressor Fluids. Recommended for flushing compressors converting from petroleum base oils to synthetic fluids. SYNFLUSH can be used in its pure form in rotary screw air compressors up to 500 hours. Part No. L0962-.

Heat Transfer Oils: These high flash and fire point oils are designed for exceptional heat transfer properties. For use on oil type heat exchangers in asphalt plants, roofer tar kettles, curing machines. Flash point 525°F. / 274°C. Fire Point 600°F. / 316°C. Available in ISO viscosity grades 32, Part No. L0757-, 68, Part No. L0751-, and 150 Part No. L0750-. Available in Pails & Drums. See page 15 for package part number suffix.

Rock Drill Oils 10R, 30R: For all types of rock drills, air hammers and other pneumatic tools used in the construction and mining industries. Available in SAE 10W, Part No. L0847-, and 30, Part No. L0848-, with the lighter weight oil for cold weather conditions. Use SPO-255 for SAE 50 rock drill oil.

Mist Oil: Designed to meet optimum requirements of mist applicators or fogging oil systems. The use of special oils and additives assures proper misting qualities. Mist oil provides superior wear protection against heavy loads. For machine tools, grinders, conveyor systems. SAE 30. Part No. L0177-.

Vacuum Pump Oil & Vacuum Pump Oil Light: High performance, non-detergent mineral oils recommended for most rotary vane and rotary lobe vacuum pumps. They are designed to alleviate the sludge, carbon deposits and contamination problems commonly found in industrial vacuum pumps. Lubriplate Vacuum Pump Oil Light is recommended for vacuum pumps typically associated with delicate instrumentation. Vacuum Pump Oil is SAE-30 / ISO-100 grade. Part No. L0945-. Vacuum Pump Oil Light is SAE-10 / ISO-32 grade. Part NO. L0944-.

HO Special Hydraulic Oils: HO-32, HO-46* and HO-68 meet the requirements and are approved by Abex-Denison HF-0 and HF-2, they are also accepted by Vickers specification M-2950-S. *Lubriplate HO-46 is approved by Cincinnati-Milacron under Specification P-70. Product Part Nos. HO-32, L0770-, HO-46, L0771-, HO-68, L0772-. See page 15 for packaging information.

932110083

Synthetic Food Machinery Grade Fluids / Class H-1*

Certified Kosher Pareve · NSF H-1 REGISTERED

SFGO Ultra Series: Polyalphaolefin (PAO)-Based, High-Performance Fluids.

Formulated with 100% PAO synthetic base fluids for a variety of demanding applications. They are outstanding lubricants for use under severe conditions subject to extremely high or low temperatures. They exhibit outstanding oxidation resistance and thermal stability capabilities. Recommended for air compressors, hydraulic systems, bearings, gearboxes, pumps and chains which experience very demanding conditions. Meets FDA 21 CFR 178.3570 and FDA 21 CFR 172.882 for applications where incidental contact with the edible product may occur. SFGO Ultra 220 and 460 pass 12 stages of the FZG Test.

LUBRIPLATE PRODUCT	*PRODUCT PART NO.	ISO VIS. GRADE	AGMA NO.	SAE GEAR OIL NO.	SAE NO.	VIS. cSt @40°C/100°C	VIS. SUS @100°F/210°F	VIS. INDEX	FLASH POINT	FIRE POINT	POUR POINT
SFGO Ultra-7	L0912-	7	-	-	5W	7 / 2	51 / 34	137	320°F / 160°C	350°F / 176°C	-75°F / -60°C
SFGO Ultra-15	L0930-	15	-	-	5W	16 / 4	89 / 40	129	380°F / 93°C	410°F / 210°C	-70°F / -57°C
SFGO Ultra-22	L0931-	22	-	-	5W	20 / 4	106 / 41	128	405°F / 207°C	430°F / 221°C	-65°F / -54°C
SFGO Ultra-32	L0915-	32	-	75	10	31 / 6	160 / 46	130	465°F / 241°C	515°F / 268°C	-70°F / -57°C
SFGO Ultra-46	L0916-	46	1	80	20	45 / 8	220 / 52	134	480°F / 249°C	520°F / 271°C	-65°F / -54°C
SFGO Ultra-68	L0917-	68	2	80	30	67 / 10	325 / 59	125	495°F / 257°C	545°F / 285°C	-60°F / -51°C
SFGO Ultra-100	L0983-	100	3	85	40	105 / 16	556 / 77	158	515°F / 268°C	560°F / 293°C	-65°F / -54°C
SFGO Ultra-150	L0984-	150	4	90	50	151 / 20	762 / 97	156	510°F / 265°C	555°F / 291°C	-60°F / -51°C
SFGO Ultra-220	L0985-	220	5	90	50	216 / 26	1088 / 128	155	510°F / 265°C	555°F / 291°C	-50°F / -46°C
SFGO Ultra-320	L0986-	320	6	140	60	312 / 34	1557 / 161	155	505°F / 263°C	550°F / 288°C	-50°F / -46°C
SFGO Ultra-460	L0987-	460	7	140	-	446 / 45	2143 / 211	156	505°F / 263°C	550°F / 288°C	-45°F / -43°C
SFGO Ultra-680	L0988-	680	8	250	-	623 / 57	3289 / 275	157	500°F / 260°C	545°F / 285°C	-45°F / -43°C
SFGO Ultra-1000	L0989-	1000	-	-	-	950 / 77	4900 / 372	157	500°F / 260°C	545°F / 285°C	-35°F / -37°C

*SFGO Ultra Fluids are available in Jugs, Pails, 1/4 Drums & Drums. See page 15 for package part number suffix.

SFGO Series: Polyalphaolefin (PAO)-Based, Multi-Purpose Fluids.

The original SFGO fluids, ISO viscosity grades 100 through 1500 are still available for less stressful applications which require only a PAO/Polymer combination synthetic fluid.

SYN-H1-220: Polyalkylene Glycol Based Synthetic Chain, Bearing and Gearbox Lubricant.

Specifically designed for use where elevated temperatures exist and the need for a food grade lubricant is required. For chain applications where air temperatures exceed 400°F./ 204°C and up to 600°F./ 316°C. when not exposed to open flame or ignition source. Passes 12 stages of FZG test.

LUBRIPLATE PRODUCT	*PRODUCT PART NO.	ISO VIS. GRADE	AGMA NO.	SAE GEAR OIL NO.	SAE NO.	VIS. cSt @40°C/100°C	VIS. SUS @100°F/210°F	VIS. INDEX	FLASH POINT	FIRE POINT	POUR POINT
SYN-H1-220	L0779-	220	5	90	-	285 / 41	1310 / 188	206	540°F / 282°C	550°F / 288°C	-20°F / -29°C

*SYN-H1-220 Fluid is available in Pails & Drums. See page 15 for package part number suffix.

RCO-68: Polyalphaolefin (PAO)-Based, Food Machinery Grade, Refrigeration Compressor Fluid.

Formulated for use in refrigeration compressor systems where a NSF H-1 Registered, food machinery grade lubricant is required.

LUBRIPLATE PRODUCT	*PRODUCT PART NO.	ISO VIS. GRADE	AGMA NO.	SAE GEAR OIL NO.	SAE NO.	VIS. cSt @40°C/100°C	VIS. SUS @100°F/210°F	VIS. INDEX	FLASH POINT	FIRE POINT	POUR POINT
RCO-68	L0818-	68	2	80	30	67 / 10	325 / 59	125	495°F / 257°C	545°F / 285°C	-60°F / -51°C

*RCO-68 Fluid is available in Pails & Drums. See page 15 for package part number suffix.

Synthetic Food Machinery Grade Greases / Class H-1*

Certified Kosher Pareve · NSF H-1 REGISTERED

SYNXTREME FG-2: Synthetic, Calcium Sulfonate Complex, Food Machinery Grade Grease.

A NSF H-1 registered, high performance, multi-purpose, synthetic, food machinery grade grease. Provides long lasting, anti-wear and extreme pressure protection. It is highly resistant to water and caustic solution wash downs. Provides excellent high and low temperature performance.

LUBRIPLATE PRODUCT	*PRODUCT PART NO.	NLGI DENSITY	OIL VIS. cSt / SUS @40°C / 100°F	WORKED PENETRATION	ASTM DROP POINT	APPROX COLD TEST	AW / EP	RUST & OXID. ADDITIVES	WATER RESISTANT
SYNXTREME FG-2	L0305-	2	100 / 500	265 / 295	700°F / 371°C	-40°F / -40°C	AW/EP	YES	YES

*SYNXTREME FG-2 is available in Cartidges, Pails, 1/4 Drums & Drums. See page 15 for package part number suffix.

F.IK000068

SFL Series: Multi-Purpose, Synthetic, Aluminum Complex, Food Machinery Grade Greases.

This series provides an exceptionally wide operating temperature range, high shear stability, excellent water resistance, and load carrying properties. For use in freezers and other cold temperature applications or in areas subject to both cold and elevated temperatures. Available in 4 densities.

LUBRIPLATE PRODUCT	*PRODUCT PART NO.	NLGI DENSITY	OIL VIS. cSt / SUS @40°C / 100°F	WORKED PENETRATION	ASTM DROP POINT	APPROX COLD TEST	AW / EP	RUST & OXID. ADDITIVES	WATER RESISTANT
SFL-00	L0195-	00	39 / 200	400 / 430	400°F / 204°C	-60°F / -51°C	AW	YES	YES
SFL-0	L0196-	0	39 / 200	355 / 385	425°F / 218°C	-60°F / -51°C	AW	YES	YES
SFL-1	L0197-	1	39 / 200	310 / 340	450°F / 232°C	-60°F / -51°C	AW	YES	YES
SFL-2	L0198-	2	219 / 1070	265 / 295	500°F / 260°C	-25°F / -32°C	AW	YES	YES

*SFL Series Greases are available in Cartidges, Pails, 1/4 Drums & Drums. See page 15 for package part number suffix.

*Lubriplate H-1 Class Lubricants are manufactured with ingredients that comply with FDA 21 CFR 178.3570 for lubricants with incidental contact with the edible product. NSF H-1 Registered.

932110084

USP Mineral Oil-Based Food Machinery Grade Oils / Class H-1*

Certified Kosher Pareve

NSF H-1 REGISTERED

FMO-AW Series: Multi-Purpose, Food Grade USP White Mineral Oils.

For use where a Class H-1 oil is required. Manufactured in nine ISO grades for a variety of applications. Anti-wear fortified. NOTE: FMO-350AW is also available in a red and orange color which helps in leak detection. The original FMO Series products without the anti-wear additive system are still available.

LUBRIPLATE PRODUCT	*PRODUCT PART NO.	ISO VIS. GRADE	AGMA NO.	SAE GEAR OIL NO.	SAE NO.	VIS. cSt @40°C/100°C	VIS. SUS @100°F/210°F	VIS. INDEX	FLASH POINT	FIRE POINT	POUR POINT
FMO-85 AW	L0880-	15-22	-	-	5W	19 / 4	103 / 40	112	335°F / 168°C	365°F / 185°C	-45°F / -43°C
FMO-150 AW	L0879-	32	-	-	10W	32 / 5	162 / 43	71	370°F / 188°C	415°F / 213°C	-30°F / -34°C
FMO-200 AW	L0881-	46	1	75	10	41 / 6	208 / 48	111	375°F / 191°C	405°F / 207°C	-25°F / -32°C
FMO-350 AW	L0882-	68	2	80	20	68 / 8	348 / 56	103	435°F / 224°C	490°F / 254°C	-10°F / -23°C
FMO-500 AW	L0883-	100	3	80	30	99 / 11	523 / 66	102	495°F / 257°C	545°F / 285°C	0°F / -18°C
FMO-900 AW	L0884-	150	4	90	40	160 / 15	856 / 83	99	450°F / 232°C	540°F / 282°C	0°F / -18°C
FMO-1100 AW	L0886-	220	5	90	50	210 / 19	1126 / 97	100	440°F / 227°C	510°F / 266°C	5°F / -15°C
FMO-1700 AW	L0887-	320	6	140	60	324 / 25	1730 / 120	95	430°F / 221°C	505°F / 263°C	5°F / -15°C
FMO-2400 AW	L0885-	460	7	140	70	456 / 30	2350 / 142	93	425°F / 218°C	505°F / 263°C	10°F / -12°C
FMO-3800 AW	L0888-	680	8	250	-	690 / 40	3864 / 198	96	420°F / 216°C	485°F / 252°C	15°F / -9°C

*FMO Series Oils are available in Bottles, Jugs, Pails, 1/4 Drums & Drums. See page 15 for more information and package part number suffix.

Food Grade Cooker Oil: This zinc free oil is designed for use in the Manzel Lubricators and Micro-valve systems found on most cookers and sterilizers used in canning operations and other similar applications involving high temperature and high humidity conditions. Unique additives provide high load-carrying ability and corrosion protection.

STO-FG Oil: Special, non-corrosive oil for lubricating stirrups on bottle filling machines. Class H-1.

PM 500 White Oil: This oil contains emulsifying agents that wet the lubricated surfaces and provides an oily film for the moving parts. Used very successfully on pear machines.

FP-150 & FP-150L: These clear, tacky, adhesive Class H-1 oils resist heavy water washdown and steam. For helical gearboxes, chains, linkages, cams, and slides and wherever a dripless, adhesive fluid lubricant is desired.

Pure Flush: This lubricating, flushing and cleansing oil is to be used along with the existing lubricant to clean equipment without dismantling. It can be used to clean and flush bearings, gear cases, hydraulic systems, centralized lubricating systems, air lines, chains and air tools. It is fully compatible with petroleum based lubricants and most petroleum compatible synthetics. Class H-1.

LUBRIPLATE PRODUCT	*PRODUCT PART NO.	ISO VIS. GRADE	AGMA NO.	SAE GEAR OIL NO.	SAE NO.	VIS. cSt @40°C/100°C	VIS. SUS @100°F/210°F	VIS. INDEX	FLASH POINT	FIRE POINT	POUR POINT
FG Cooker Oil	L0701-	150	4	90	40	155 / 16	795 / 82	104	475°F / 246°C	525°F / 274°C	5°F / -15°C
STO-FG	L0863-	68	2	80	20	67 / 13	340 / 70	105	425°F / 218°C	485°F / 252°C	-15°F / -26°C
PM-500	L0192-	100	3	80	30	101 / 11	560 / 64	86	420°F / 216°C	485°F / 252°C	-5°F / -21°C
FP-150	L0735-	460	7	140	70	367 / 25	1950 / 127	93	395°F / 202°C	455°F / 235°C	0°F / -18°C
FP-150L	L0736-	100	3	80	30	103 / 12	510 / 67	108	410°F / 210°C	450°F / 232°C	-5°F / -21°C
Pure Flush	L0816-	-	-	-	-	7 / 2	50 / 32	-	210°F / 99°C	220°F / 104°C	-35°F / -37°C

*See page 15 for the package part number suffix which identifies the available packaging. Not all products are available in every package size.

Food Machinery Oils / Class H-2**

No. 72-C Oil: Class H-2** oil, for use as a steam peeler oil as it provides an oiliness film which prevents chatter. FJK000069

No. 78 Cooker Oil: Class H-2** oil, for use in Manzel lubricators for A-B cookers and sterilizers, FMC cookers. Corrosion and oxidation resistant.

STO-4 Oil: Special, non-corrosive oil for lubricating stirrups on bottle filling machines. Class H-2.**

AS-148 Oil: An ashless oil for bearings, gears and cams where high temps are encountered. For Manzel lubricators and Angelus Seamers. Class H-2.**

LUBRIPLATE PRODUCT	*PRODUCT PART NO.	ISO VIS. GRADE	AGMA NO.	SAE GEAR OIL NO.	SAE NO.	VIS. cSt @40°C/100°C	VIS. SUS @100°F/210°F	VIS. INDEX	FLASH POINT	FIRE POINT	POUR POINT
72-C	L0703-	150	4	90	40	151 / 13	750 / 75	110	490°F / 254°C	520°F / 271°C	15°F / -9°C
78	L0700-	150	4	90	40	164 / 15	850 / 82	99	475°F / 246°C	565°F / 296°C	-20°F / -29°C
STO-4	L0860-	46	1	75	20	45 / -	255 / 47	70	320°F / 160°C	370°F / 188°C	-30°F / -34°C
AS-148	L0715-	220	5	90	50	200 / 18	1041 / 91	97	470°F / 243°C	525°F / 274°C	10°F / -12°C

*See page 15 for the package part number suffix which identifies the available packaging. Not all products are available in every package size.

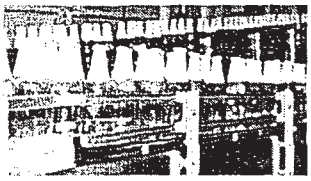
**H-2 Class lubricants may be used as a lubricant or anti-rust agent on equipment in which there is no possibility of the lubricated part contacting the edible product.

USP Mineral Oil-Based Food Grade Greases / Class H-1*

Certified Kosher Pareve

NSF H-1 REGISTERED

FGL Series: High Performance, Multi-Purpose Food Grade Greases.



Designed to meet the demands of food and beverage industry plant engineers who want Class H-1 greases to totally replace H-2 greases. Fortified with anti-wear, anti-rust and anti-corrosion additives which combine to yield excellent shear stability, load carrying capability and resistance to water and caustic wash down. Available in four NLGI densities for a variety of applications. FGL-CC is for centralized/automatic lubrication systems on high speed can closing equipment.

LUBRIPLATE PRODUCT	*PRODUCT PART NO.	GREASE TYPE	NLGI DENSITY	OIL VIS. cSt/SUS @40°C/100°F	WORKED PENETRATION	ASTM DROP POINT	APPROX COLD TEST	AW / EP	RUST & OXID. ADDITIVES	WATER RESISTANT
FGL-00	L0226-	ALUMINUM COMPLEX	00	120 / 550	400 / 430	410°F / 210°C	-5°F / -21°C	AW	YES	YES
FGL-CC	L0229-	ALUMINIUM COMPLEX	0/00	120 / 550	370 / 410	450°F / 232°C	0°F / -18°C	AW	YES	YES
FGL-0	L0230-	ALUMINUM COMPLEX	0	120 / 550	355 / 385	435°F / 224°C	0°F / -18°C	AW	YES	YES
FGL-1	L0231-	ALUMINUM COMPLEX	1	120 / 550	310 / 340	460°F / 238°C	0°F / -18°C	AW	YES	YES
FGL-2	L0232-	ALUMINUM COMPLEX	2	160 / 850	265 / 295	515°F / 268°C	10°F / -12°C	AW	YES	YES

*FGL Series greases are available in Cans, Pails, 1/4 Drums & Drums, FGL-1 & FGL-2 are available in Cartridges. See page 15 for more information and package part number suffix.

FML Series: Multi-Purpose, Food Grade Greases.

These white, multi-purpose greases have been leaders in the food processing industry for years.

LUBRIPLATE PRODUCT	*PRODUCT PART NO.	GREASE TYPE	NLGI DENSITY	OIL VIS. cSt/SUS @40°C/100°F	WORKED PENETRATION	ASTM DROP POINT	APPROX COLD TEST	AW / EP	RUST & OXID. ADDITIVES	WATER RESISTANT
FML-0	L0143-	ANHYDROUS CALCIUM	0	144 / 750	355 / 385	280°F / 138°C	0°F / -18°C	AW	YES	YES
FML-1	L0144-	ANHYDROUS CALCIUM	1	144 / 750	310 / 340	285°F / 141°C	0°F / -18°C	AW	YES	YES
FML-2	L0145-	ANHYDROUS CALCIUM	2	144 / 750	265 / 290	285°F / 141°C	0°F / -18°C	AW	YES	YES

*FML Series greases are available in Cans, Pails, 1/4 Drums & Drums, FML-2 is available in Cartridges. See page 15 for more information and package part number suffix.

PURE TAC: Tacky, Adhesive Food Grade Grease.

This tacky, adhesive, highly water resistant, Class H-1 grease is designed for applications subjected to chemically treated water, heat and steam. For all types of medium to slow speed bearings, open gears and hydrostatic cooker chains.

LUBRIPLATE PRODUCT	*PRODUCT PART NO.	GREASE TYPE	NLGI DENSITY	OIL VIS. cSt/SUS @40°C/100°F	WORKED PENETRATION	ASTM DROP POINT	APPROX COLD TEST	AW / EP	RUST & OXID. ADDITIVES	WATER RESISTANT
PURE TAC	L0236-	ALUMINIUM COMPLEX	2	1187 / 6500	265 / 295	520°F / 271°C	25°F / -4°C	AW	YES	YES

*PURE TAC is available in Cartridges, Pails, 1/4 Drums & Drums. See page 15 for more information and package part number suffix.

CLEARPLEX-2: Clear, Multi-Purpose Food Grade Grease.

This Aluminum Complex thickened, H-1 class grease is engineered for use in plain and anti-friction bearings in the food-processing and beverage processing industry. Contains non zinc-oxide anti-wear additive.

LUBRIPLATE PRODUCT	*PRODUCT PART NO.	GREASE TYPE	NLGI DENSITY	OIL VIS. cSt/SUS @40°C/100°F	WORKED PENETRATION	ASTM DROP POINT	APPROX COLD TEST	AW / EP	RUST & OXID. ADDITIVES	WATER RESISTANT
CLEARPLEX-2	L0351-	ALUMINIUM COMPLEX	2	104 / 500	265 / 295	450°F / 232°C	10°F / -12°C	AW	YES	YES

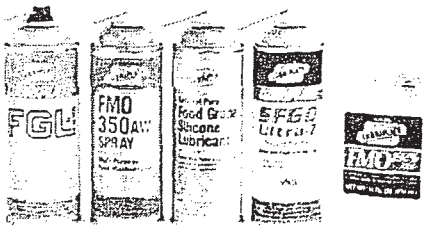
*CLEARPLEX-2 is available in Cartridges, Pails, 1/4 Drums & Drums. See page 15 for more information and package part number suffix.

Food Grade Spray Lubricants / Class H-1*

Certified Kosher Pareve

NSF H-1 REGISTERED

FJK000070



FGL-1 Spray: Class H-1 lubricant in handy easy to use 11 OZ. / 312 g. spray can. Quick and clean applications. Fortified with anti-wear, anti-rust, and anti-corrosion additives. Part No. L0231-063

Super FML-2 Spray: A Class H-1 white lubricant in handy, easy to use spray can. For use in food processing operations where a Class H-1 lubricant is required. Part No. L0145-063.

FMO-85-AW Spray: A multi-purpose Class H-1 oil. Packed in 14 OZ. / 414 ml hand pump, non-aerosol spray bottle. Part No. L0880-067.

FMO-350-AW Spray: A Class H-1 food machinery oil, in easy to apply spray can. For use where a Class H-1 oil is required. Part No. L0882-063.

Food Grade Silicone Lubricant: A multi-purpose, silicone lubricant for use on bottling, dairy and food processing machinery. For slides, O-rings, rubber seals and general lubrication. Part No. L0723-063.

SFGO Ultra-7 Spray: A multi-purpose, synthetic fluid lubricant, for use on bottling, dairy and food processing machinery. For chains, slides and general lubrication. Part No. L0912-063.

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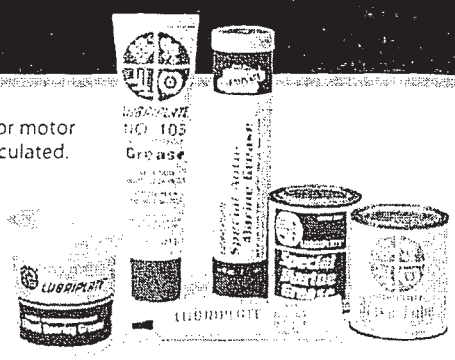
*H-1 Class Lubricants are manufactured with ingredients that comply with FDA regulation 21 CFR 178.3570 for lubricants with incidental contact with the edible product.

Automotive Lubricants



No. 105 Motor Assembly Grease: A smooth light-bodied grease made especially for motor assembly. Prevents "Dry Start." Provides lubrication during initial start up before the motor oil has circulated. Protects freshly machined engine parts from rust and corrosion. Part No. L0034-094.

No. 105 "B" Tube General Purpose Grease: The original white grease in handy tube. Ideal for locks, latches, hinges, wiper mechanisms, speedometer cables, or anywhere you need a light-bodied, grease type lubricant. Also excellent for motor assembly. Part No. L0034-086.

Wheel Bearing Grease: A superior, long lasting, water resistant, extreme pressure, wheel bearing grease. N.L.G.I. GC-LB certified. Available in 16 oz. Plastic Tubs, Part No. L0220-004, as well as 6 lb Cans, Pails, 1/4 Drums and Drums. See page 15 for package part number suffix.

Special Auto Marine Grease: A super multi-purpose, high temperature, water repellent, extreme pressure grease for automotive and marine uses. Available in 14 oz. Cans Part No. L0206-001 and 14.5 oz. Cartridges Part No. L0206-098.

No. 110 Brake Lubricant: This water repellent grease is designed for the contact points where the brake shoes rest on the backing plate and for the automatic adjusters inside the brake assembly. Product Part No. L0037- Available in Cans, Pails, 1/4 Drums and Drums. See page 15 for package part number suffix.

Spray Lubricants: See page 15 for information.

Motor Oils & Transmission Fluids

Super GPO Heavy-Duty Motor Oils: Designed for naturally aspirated and turbo-charged diesel, gasoline and LP gas engines. Ideal for mixed fleets, construction equipment, trucks and automobiles. API service CG-4, CF-4 (15W-40 & 10W-30), CF, CF-2, CE, CD, SH, SJ, MIL-L-2104G and MIL-L-46152E. SAE 30, Pt. No. L0749-, SAE 40, Pt. No. L0752-, SAE 10W-30, Pt. No. L0754-, SAE 15W-40, Pt. No. L0753-.

Super HDS Motor Oil: Fully detergent motor oils for diesel and gasoline engines. Protects against oxidation, corrosion, foaming, sludge and wear. For service SJ / CF, MIL-L-46152E. SAE 10W, Pt. No. L0788-, SAE 20-20W, Pt. No. L0789-, SAE 30, Pt. No. L0791-, SAE 40, Pt. No. L0792-, SAE 50, Pt. No. L0793-.

Super 345, SAE 5W-30 Long Mileage Motor Oil: Designed for today's smaller automobile engines. For service SJ / CF / ILSAC GF-1. Energy Conserving II. Part No. L0732-. See page 15 for packaging information.

Non-Detergent Motor Oil: A top quality non-detergent motor oil. For use where detergent oils are not required or desired. For service SA. SAE 10W, Pt. No. L0804-, SAE 20-20W, Pt. No. L0806-, SAE 30, Pt. No. L0807-, SAE 40, Pt. No. L0808, SAE 50, Pt. No. L0809-. See page 15 for packaging information.

2 Cycle Motor Oil: For use in air cooled, 2 cycle engines on motor cycles, lawn equipment, chain saws, snowmobiles and outboards. Pt. No. L0826-.

DEXRON III / MERCON Automatic Transmission Fluid: Recommended and approved for all General Motors, Chrysler, and Ford (1989 and Newer) or anywhere Dexron and Ford Mercon Fluids are specified. Product Part No. L0867-. See page 15 for packaging information.

Hydraulic-Transmission Fluid Type UTF: For heavy-duty equipment where UTF type fluids are required. Pt. No. L0873-.

FJK000071

Metal Working Fluids

Darl No. 2 Cutting Oil: Multi-purpose dark cutting oil for all types of machining operations on a wide range of metals including, steel, copper, brass, and aluminum. Product Part No. L0520-. See page 15 for packaging information and package part number sufix.

No. 405 Dark Cutting Oil: Heavy-duty, dark cutting oil recommended for difficult machining operations. Excellent for high carbon steels, alloys, and stainless steels. Not recommended for brass, bronze, copper, or aluminum. Product Part No. F0587-. See page 15 for packaging information.

Flokool XX Cutting Oil: Multi-purpose cutting oil for high speed machining operations. Appears transparent on the workpiece and will drain off the completed parts quickly. Not recommended for brass, bronze, or copper. Product Part No. F0530-. See page 15 for packaging information.

Honing Oil: Light viscosity oil compounded with non-corrosive, sulfurized fatty bases to insure good fluidity and wetting action. Part No. F0535-.

No. 35 Soluble Oil: Multi-purpose, water soluble cutting oil. Forms a milky white emulsion that does not readily decompose. Part No. L0576-.

Cut-n-Cool: Heavy duty, water soluble cutting oil fortified with both sulfur and chlorine which delivers substantially longer tool life, improved finish, and more accurate cuts. May stain brass, bronze, and copper if not cleaned off work shortly after use. Product Part No. L0514-. See page 15 for packaging information.

Metal Working Fluid: A specially developed product for metal working operations. Excellent for drilling, tapping, sawing, and grinding. Packed in handy 12 OZ. / 340 g. spray can. Part No. L0185-063. See page 15 for packaging information.

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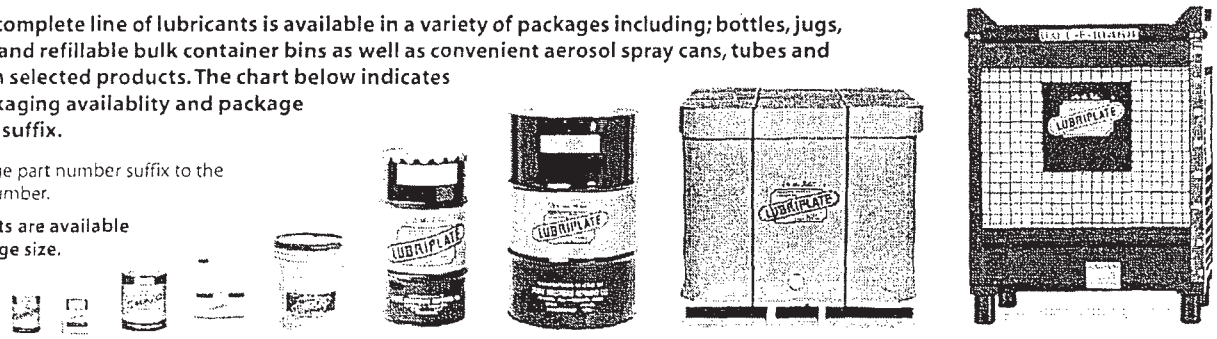
Packaging Containers

Lubriplate's complete line of lubricants is available in a variety of packages including; bottles, jugs, pails, drums and refillable bulk container bins as well as convenient aerosol spray cans, tubes and cartridges on selected products. The chart below indicates product packaging availablity and package part number suffix.

Add the package part number suffix to the product part number.

Not all products are available in every package size.



PRODUCT / PACKAGE PART NO. SUFFIX	24 / SM. CANS 14 OZ. / 397 g	12 / BOTTLES 1 QUART / 946 ml 2 LB. / .907 kg	6 / CANS 6 LB. / 2.72 kg	4 / JUGS 1 GAL. / 3.79 L 7 LB / 3.18 kg	PAIL 35 LB. / 15.9 kg 5 GAL. / 18.9 L	QTR. DRUM 120 LB. / 54 kg 16 GAL. / 60.5 L	FULL DRUMS 400 LB. / 181 kg 55 GAL. / 208 L	REFILLABLE OR DISPOSABLE BULK BINS.**
Multi-Purpose Synthetic Fluids	-	-	-	-057	-060	-061	-062	•
Air Compressor Fluids / Oils	-	-054	-	-057	-060	-061	-062	•
Hydraulic Oils	-	-	-	-057	-060	-061	-062	•
*Greases	-001	-	-006	-	-035	-039	-040	•
*Gear, Bearing & Recirculating Oils	-	-013	-	-007	-035	-039	-040	•
Specialty Greases	-001	-	-006	-	-035	-039	-040	•
Specialty Oils & Fluids	-	-054	-	-057	-060	-061	-062	•
Food Machinery Grade Fluids / Oils	-	-054	-	-057	-060	-061	-062	•
*Food Machinery Grade Greases	001	-	-006	-	-035	-039	-040	•
Motor Oils / Transmission Fluids	-	-054	-	-	-060	-	-062	•
Metal Working Fluids	-	-	-	-057	-060	-061	-062	•

*Items Sold By Weight. **For size, package part number suffix and price information on Bulk Bins call 800-733-4755.

Grease Cartridges: Lubriplate Grease Cartridges provide quick, clean, convenient, "on site" lubrication with reduced waste and grease contamination. SYNXTREME HD-2, SYN-1601, SYN-1602, No. 630-2, 730-2, 930-AA, 930-2, 1200-2, 1241, 1242, 1444, 1551, 1552, 3000, 3000-W, HIGH TEMP, LOW TEMP, MO-LITH NO. 2, MAG 1, EMB, SYNXTREME FG-2, SFL-1, SFL-2, FGL-1, FGL-2, FML-2, PURE TAC, CLEARPLEX-2 and SPECIAL AUTO-MARINE GREASE: These products are available in 14 1/2 OZ. / 411g cartridges, 40 to a case. Package Part No. Suffix -098.

GEAR SHIELD EXTRA HEAVY: Available in 10 1/2 OZ. / 297g caulk type cartridges, 40 to a case. Part No. L0152-000.

Lubricants In Plastic Tubes:

No. 105, 630-AA and AERO are available in 3/8 OZ. / 10.6 g plastic tubes, 288 to a case. Package Part No. Suffix -076.

No. 105, 130-AA, 630-AA, 930-AA, AERO and DS-ES are available in 1 3/4 OZ. / 50 g tubes, 36 to a case. Part No. Suffix -086.

No. 105 Gear Lube, 130-AA, 630-AA, LOW-TEMP, and APG 90 GEAR OIL are available in 10 OZ. / 284 g plastic tubes, 36 to a case. Package Part No. Suffix -092. and No. 105 Motor Assembly Grease Part No. L0034-094.

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Multi-Purpose Spray Lubricants

Chain & Cable Fluid: Superior penetrating oil. A cleansing non-gumming oil. Lubricates wire rope, chains, cables, any moving metal surfaces. Prevents rust and corrosion. Protects brightwork, loosens rusty nuts and bolts. Excellent drilling, tapping, and sawing oil. 12 OZ. / 340 g. spray can. Part No. L0135-063.

Spray Lube "A": A multi-pupose, white lithium-based lubricant of medium density. Sprays like a fluid, congeals to a grease. Excellent for latches, locks, hinges, battery terminals and other hardware. Part No. L0034-063.

Gear Shield Extra Heavy: Developed for easy lubrication of open gears. A tough tacky grease. Excellent for fifth wheel applications. Packed in handy 11 OZ. / 311.8 g. spray can. Part No. L0152-063.

Oil Well In a Bottle™: An excellent multi-purpose, penetrating oil ideal for slides, hinges, rollers, cables, frozen nuts and bolts. Prevents rust and corrosion. Moisture displacing agent works on wet ignition for "wet start." Packed in 14 OZ. / 414 ml. non-aerosol, hand pump, spray bottle. Part No. L0188-067.

X-357 Lubricant: A special extreme pressure lubricant that penetrates and adheres. Water resistant and unaffected by temperature extremes. For use on pintle hooks, slide axles, open gears, fifth wheels. Contains moly-disulfide. Packed in handy 11 OZ. / 311.8 g. spray can. Part No. L0149-063.

Marine & Auto Guard: Multi-purpose penetrating oil. An excellent "wet start" product. Spray on wet plug wires and distributor cap. Outstanding moisture displacement properties. Prevents rust and corrosion. Excellent fogging oil. Packed in 12 OZ. / 340 g. spray can. Part No. L0774-063.

Food Machinery Grade Spray Lubricants: See page 13 for information on these lubricants.

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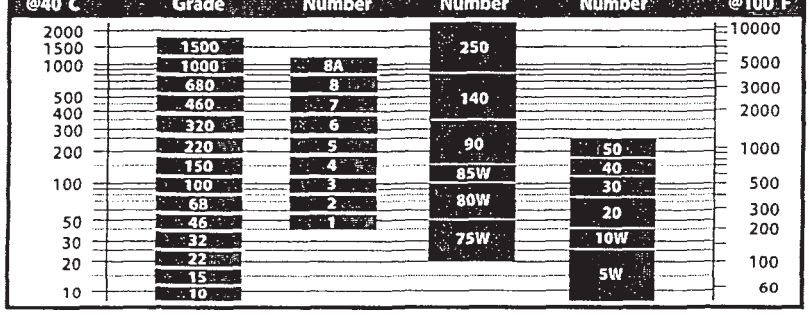
General Application Recommendations

The multitude of industrial machinery and construction equipment on the market today makes specific applications impossible to list here. It is best to refer to the OEM service manuals of the machinery for specific lubrication recommendations. Listed below are a few lubricants that will cover most general requirements. For additional information contact your local Lubriplate Distributor, Lubriplate District Manager (listed below) or Jim Girard, (800)733-4755.

APPLICATIONS	NORMAL TEMPERATURES	HIGH TEMPERATURES	LOW TEMPERATURES	FOOD MACHINERY GRADE NSF H-1 CLASS / FDA CFR 178.3570
GENERAL GREASE	1200-2 / SYN-1602	HIGH TEMP / 1552 / SYN-1602	MAG-1 / SYN-1602	FGL-1 / FGL-2 / SYNXTREME FG-2
GENERAL OIL	SPO-233 / SYN-LUBE-100	SPO-266 / SYN-LUBE-320	SPO-233 / SYN-LUBE-100	FMO-350AW / SFGO ULTRA-68
CENTRALIZED SYSTEMS / GREASE	930-AAA / 630-AAA / SYN-1600	930-AAA / SYN-1600	MAG-00 / 1550	FGL-0 / FGL-00 / SFL-0
CENTRALIZED SYSTEMS / OIL	SPO-233 / SYN-LUBE-100	SPO-277 / SYN-LUBE-460	SPO-222 / SYN-LUBE-68	FMO-350AW-500AW / SFGO ULTRA 68
GEAR BOXES (HELICAL, SPUR)	SPO-255 / SYN-LUBE-220	SPO-MG / SYN-LUBE-320	SPO-244 / SYN-LUBE-150	FMO-1100AW / SFGO ULTRA 220
GEAR BOXES (WORM)	SPO-277 / SYN-LUBE-460	SPO-288 / SYN-LUBE-680	SPO-MG / SYN-LUBE-320	FMO-3800AW / SFGO ULTRA 680
OPEN GEARS	GEAR SHIELD EXTRA HEAVY	GEAR SHIELD XTRA HEAVY	LOW TEMP GEAR SHIELD	PURE TAC
HYDRAULIC EQUIPMENT	HO-1 / HO-2 / SYN-LUBE-68	HO-2A / SYN-LUBE-100	LOW POUR HO / SFGO ULTRA-7	FMO-350AW / SFGO ULTRA 68
AIR COMPRESSORS (RECIPROCATING)	SYN-LUBE-68	SYN-LUBE-100	SYN-LUBE-32	SFGO ULTRA-68 or 100
AIR COMPRESSORS (ROTARY SCREW)	SYN-LUBE-46	SYN-LUBE-46	SYN-LUBE-32	SFGO ULTRA-46 or 68
HIGH SPEED BEARINGS (OIL)	HO-0 / SYN-LUBE-32	SPO-233 / SYN-LUBE-100	1 / SYN-LUBE-32	FMO-350AW / SFGO ULTRA-68
HIGH SPEED BEARINGS (GREASE)	EMB / POLY HP-2 / SYN-1602	1552 / POLY HP-2 / SYN-1602	MAG-1 / GR-132 / SYN-1602	FGL-1 / SFL-1
LOW SPEED BEARINGS (OIL)	SPO-244 / SYN-LUBE-150	SPO-255 / SYN-LUBE-220	SPO-233 / SYN-LUBE-100	FMO-500AW / SFGO ULTRA 100
LOW SPEED BEARINGS (GREASE)	1242 / 1552 / SYN-1602	HIGH TEMP / 1552 / SYN-1602	MAG-1 / SYN-1602	FGL-2 / SFL-2
WHEEL BEARINGS (GREASE)	1552 / SYN-1602	1552 / SYN-1602	1552 / SYN-1602	FGL-1 / SYNXTREME FG-2
SLIDES / CAMS	1241 / 1242 / SYN-1602	1444 / SYN-1602	MAG-1 / SYN-1602	FGL-2 / SYNXTREME FG-2
MIST SYSTEMS	Mist Oil / SYN-LUBE-100	Mist Oil / SYN-LUBE-100	Rock Drill Oil 10R / SYN-LUBE-32	FMO-350AW / SFGO ULTRA-68
WIRE ROPE / CABLES / CHAINS	Chain & Cable Fluid	SPO-288	Chain & Cable Fluid	FMO-350AW / SFGO ULTRA-7
RUST / CORROSION PREVENTION	Chain & Cable Fl / SFGO ULTRA-7	Chain & Cable Fl / SFGO ULTRA-7	Chain & Cable Fl / SFGO ULTRA-7	FMO-350AW / SFGO ULTRA-7
ENGINE REBUILDING	105	105	105	-
MOLY GREASE (MOS_2)	3000	3000	3000W	-
REFRIGERATION COMPRESSORS	68N OR 68P Refrigeration Compressor Oil - Consult Data Sheet 5-23 and 5-23A for details.			RCO-68

Petroleum Based Product Synthetic Based Product

Oil Viscosity Classification Comparisons



NLGI Grease Classifications

NLGI NO.	DESCRIPTION	WORKED PENETRATION ASTM @ 77°F / 25°C
000	SEMI-FLUID	445 - 475
00	SEMI-FLUID	400 - 430
0	VERY-SOFT	355 - 385
1	SOFT	310 - 340
2	MEDIUM SOFT	265 - 295
3	MEDIUM	220 - 250
4	HARD	175 - 205
5-6	VERY HARD	85 - 160

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F.IK000073

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Technical Service Center: Iliana Vargas - Director of Technology
800-733-4755 - ivargas@lubriplate.com

Special Projects Manager: Hubert Wrocklage -
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hwrocklage@lubriplate.com

Toledo Sales Coordinator: Mike Kontak - 419-691-2491
MikeK@lubriplate.com

Chief International Representative: Charles Husko - 1-813-907-3027
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LUBRIPLATE DIVISION / FISKE BROTHERS REFINING COMPANY
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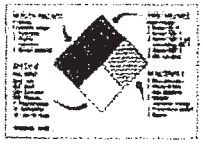

Material Safety Data Sheet

Name H0-3 LUBRIPLATE HYDRAULIC OIL **MSDS** cgwhn
Company FISKE BROS REFINING CO **FSC** 9150

MSDS Safety Information

FSC: 9150
MSDS Date: 01/01/1996
MSDS Num: CGWHN
LIIN: 00F032623
Product ID: H0-3 LUBRIPLATE HYDRAULIC OIL
MFN: 02
Responsible Party
Cage: 73219
Name: FISKE BROS REFINING CO
Address: 129 LOCKWOOD ST
City: NEWARK NJ 07105-4720
Info Phone Number: 201-589-9150
Emergency Phone Number: 201-589-9150
Preparer's Name: JAMES R KONTAK
Review Ind: Y
Published: Y

Preparer Co. when other than Responsible Party Co.

Cage: 73219
Name: FISKE BROS REFINING CO
Address: 129 LOCKWOOD ST
City: NEWARK NJ 07105-4720

Contractor Summary

Cage: 73219
Name: FISKE BROS REFINING CO
Address: 129 LOCKWOOD ST
City: NEWARK NJ 07105-4720
Phone: 201-589-9150

Ingredients

Name: MINERAL OIL

Name: ADDITIVES

Name: ZINC COMPOUND
% Wt: ANDlt;2

Health Hazards Data

FJK000074

Route Of Entry Inds - Inhalation: YES
Skin: NO
Ingestion: YES
Carcinogenicity Inds - NTP: NO
IARC: NO
OSHA: NO
Effects of Exposure: EYES: IRRITATION. SKIN: PROLONGED/REPEATED CONTACT MAY CAUSE IRRITATION. INGESTION: LOW TOXIC. MINUTE AMOUNTS ASPIRATED INTO THE LUNGS DURING INGESTION MAY CAUSE MILD TO SEVERE PULMONARY INJURY. IF IN JECTED BY HIGH PRESSURE UNDER SKIN, DELAY OF MEDICAL ATTENTION MAY CAUSE LOSS

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OF AFFECTED PART OF THE BODY.
Explanation Of Carcinogenicity: NONE
Signs And Symptions Of Overexposure: IRRITATION
First Aid: EYES: FLUSH W/CLEAR WATER FOR 15 MINS. SKIN: WASH W/SOAP ANDamp; WATER. INHALATION: IMMEDIATELY REMOVE FROM EXPOSURE. INGESTION: DON'T INDUCE VOMITING. OBTAIN MEDICAL ATTENTION IN ALL CASES.

Handling and Disposal

Spill Release Procedures: RECOVER LIQUID, WASH REMAINDER W/SUITABLE PETROLEUM SOLVENT/ADD ABSORBENT. KEEP PETROLEUM OUT OF SEWERS ANDamp; WATER COURSES.
Waste Disposal Methods: DISPOSE OF ABSORBED MATERIAL AT AN APPROVED WASTE DISPSOAL FACILITY/SITE IAW/LOCAL, STATE ANDamp; FEDERAL REGULATIONS.
Handling And Storage Precautions: KEEP CONTAINERS CLOSED WHEN NOT IN USE. DON'T HANDLE/STORE NEAR HEAT, SPARKS, FLAME/STRONG OXIDANTS.
Other Precautions: AVOID BREATHING OIL MIST.

Fire and Explosion Hazard Information

Flash Point Method: COC
Flash Point Text: 415-480F
Lower Limits: 0.9
Upper Limits: 7
Extinguishing Media: FOAM, DRY CHEMICAL, CO2/WATER SPRAY (FOG)
Fire Fighting Procedures: COOL EXPOSED CONTAINERS W/WATER. USE AIR SUPPLIED BREATHING EQUIPMENT FOR ENCLOSED/CONFINED SPACES.
Unusual Fire/Explosion Hazard: DON'T STORE/MIX W/STRONG OXIDANTS. EMPTY CONTAINERS RETAIN RESIDUE. DON'T CUT, DRILL, GRIND/WELD AS THEY MAY EXPLODE.

Control Measures

Respiratory Protection: NORMALLY NOT NEEDED
Ventilation: LOCAL EXHAUST: USED TO CAPTURE FUMES ANDamp; VAPORS.
Protective Gloves: OIL-RESISTANT
Eye Protection: GOGGLES
Other Protective Equipment: OIL RESISTANT APRON
Work Hygienic Practices: REMOVE/LAUNDER CONTAMINATED CLOTHING BEFORE REUSE. CLEANS THOROUGHLY AFTER CONTACT.

Physical/Chemical Properties

B.P. Text: ANDgt;550F
Vapor Pres: ANDlt;0.01
Vapor Density: ANDgt;5
Spec Gravity: 0.87-0.89
Solubility in Water: NEGLIGIBLE
Appearance and Odor: TRANSPARENT AMBER LIQUID W/MINERAL OIL ODOR

Reactivity Data

Stability Indicator: YES
Stability Condition To Avoid: HEAT, SPARKS, FLAME
Materials To Avoid: STRONG OXIDANTS; LIQUID CHLORINE, CONCENTRATED OXYGEN
Hazardous Decomposition Products: SULFUR DIOXIDE; CO
Hazardous Polymerization Indicator: NO

Toxicological Information

Ecological Information

MSDS Transport Information

FJK000075

Regulatory Information

Other Information

HAZCOM Label

932110092

Product ID: HO-3 LUBRIPLATE HYDRAULIC OIL
Cage: 73219
Company Name: FISKE BROS REFINING CO
Street: 129 LOCKWOOD ST
City: NEWARK NJ
Zipcode: 07105-4720
Health Emergency Phone: 201-589-9150
Label Required IND: Y
Date Of Label Review: 10/12/1999
Status Code: A
Origination Code: G
Hazard And Precautions: EYES: IRRITATION. SKIN: PROLONGED/REPEATED CONTACT MAY CAUSE IRRITATION. INGESTION: LOW TOXIC. MINUTE AMOUNTS ASPIRATED INTO THE LUNGS DURING INGESTION MAY CAUSE MILD TO SEVERE PULMONARY INJURY. IF IN JECTED BY HIGH PRESSURE UNDER SKIN, DELAY OF MEDICAL ATTENTION MAY CAUSE LOSS OF AFFECTED PART OF THE BODY.

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FISKE BROS REFINING -- 115 LUBRIPLATE - PETROLEUM LUBRICATING GREASE
MATERIAL SAFETY DATA SHEET
NSN: 915000F046313
Manufacturer's CAGE: 73219
Part No. Indicator: A
Part Number/Trade Name: 115 LUBRIPLATE

==========

General Information

==========

Item Name: PETROLEUM LUBRICATING GREASE
Company's Name: FISKE BROS REFINING CO
Company's Street: 129 LOCKWOOD ST
Company's City: NEWARK
Company's State: NJ
Company's Country: US
Company's Zip Code: 07105-4720
Company's Emerg Ph #: 201-589-9150
Company's Info Ph #: 201-589-9150
Record No. For Safety Entry: 001
Tot Safety Entries This Stk#: 001
Status: SE
Date MSDS Prepared: 01JAN94
Safety Data Review Date: 06MAR96
MSDS Preparer's Name: JAMES R KONTAK
Preparer's Company: FISKE BROS REFINING CO
Preparer's St Or P. O. Box: 129 LOCKWOOD ST
Preparer's City: NEWARK
Preparer's State: NJ
Preparer's Zip Code: 07105-4720
MSDS Serial Number: BYMTK

==========

Ingredients/Identity Information

==========

Proprietary: NO
Ingredient: CALCIUM SOAP
Ingredient Sequence Number: 01
NIOSH (RTECS) Number: 1002172CS

Proprietary: NO
Ingredient: MINERAL OIL
Ingredient Sequence Number: 02
NIOSH (RTECS) Number: 1002836MO

Proprietary: NO
Ingredient: ADDITIVES
Ingredient Sequence Number: 03
NIOSH (RTECS) Number: 1000144AD

FJK000077

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Physical/Chemical Characteristics

Appearance And Odor: SMOOTH, WHITE GREASE W/MINERAL OIL ODOR
Boiling Point: >550F
Vapor Pressure (MM Hg/70 F): <0.01
Vapor Density (Air=1): >5
Specific Gravity: 0.89-0.93
Evaporation Rate And Ref: (BU AC=1): <0.01
Solubility In Water: NEGLIGIBLE

Fire and Explosion Hazard Data

Flash Point: 360F
Flash Point Method: COC
Lower Explosive Limit: 0.9
Upper Explosive Limit: 7
Extinguishing Media: FOAM, DRY CHEMICAL, CO2/WATER SPRAY
Special Fire Fighting Proc: USE AIR-SUPPLIED BREATHING EQUIPMENT FOR ENCLOSED/CONFINED AREAS. COOL EXPOSED CONTAINERS W/WATER.
Unusual Fire And Expl Hazrds: EMPTY CONTAINERS RETAIN RESIDUE. DON'T CUT, DRILL, GRIND/WELD AS THEY MAY EXPLODE.

Reactivity Data

Stability: YES
Cond To Avoid (Stability): HEAT, SPARKS, FLAME.
Materials To Avoid: STRONG OXIDANTS LIKE LIQUID CHLORINE, CONCENTRATED OXYGEN.
Hazardous Decomp Products: SULFUR DIOXIDE INCOMPLETE COMBUSTION MAY FORM CO.
Hazardous Poly Occur: NO

Health Hazard Data

Route Of Entry - Inhalation: YES
Route Of Entry - Skin: NO
Route Of Entry - Ingestion: NO
Health Haz Acute And Chronic: EYES/SKIN: IRRITATION. INHALATION: MINUTE AMOUNTS ASPIRATED INTO LUNGS MAY CAUSE MILD TO SEVERE PULMONARY INJURY.
Carcinogenicity - NTP: NO
Carcinogenicity - IARC: NO
Carcinogenicity - OSHA: NO
Explanation Carcinogenicity: NONE
Signs/Symptoms Of Overexp: IRRITATION.
Emergency/First Aid Proc: EYES: FLUSH W/WATER FOR 15 MINS. SKIN: WASH W/SOAP & WARM WATER. IF INJECTED BY HIGH PRESSURE, REGARDLESS OF THE APPEARANCE/IT'S SIZE. CONTACT PHYSICIAN IMMEDIATELY. DELAY MAY CAUSE LOSS OF AFFECTED BODY PARTS. INHALATION: REMOVE TO FRESH AIR. INGESTION: DON'T INDUCE VOMITING. OBTAIN MEDICAL ATTENTION IN ALL CASES.

Precautions for Safe Handling and Use

Steps If Matl Released/Spill: SCRAPE UP GREASE, WASH REMAINDER W/SUITABLE PETROLEUM SOLVENT/ADD ABSORBENT. KEEP PETROLEUM PRODUCTS OUT OF SEWERS & WATER COURSES. ADVISE AUTHORITIES IF PRODUCT HAS ENTERED/MAY ENTER SEWERS & WATER COURSES.
Waste Disposal Method: DISPOSE OF IAW/FEDERAL, STATE & LOCAL REGULATIONS. DISPOSE OF ABSORBED MATERIAL AT AN APPROVED WASTE DISPOSAL FACILITY/SITE.
Precautions-Handling/Storing: KEEP CONTAINERS CLOSED WHEN NOT IN USE. DON'T HANDLE/STORE NEAR HEAT, SPARKS, FLAME/STRONG OXIDANTS.
Other Precautions: EXPOSURE TO LIQUIDS, VAPORS, MISTS & FUMES SHOULD BE MINIMIZED.

Control Measures

Respiratory Protection: NORMALLY NOT NEEDED
Ventilation: LOCAL EXHAUST: USED TO CAPTURE FUMES AND VAPORS
Protective Gloves: OIL-RESISTANT
Eye Protection: GOGGLES
Other Protective Equipment: OIL-RESISTANT APRON
Work Hygienic Practices: REMOVE/LAUNDER CONTAMINATED CLOTHING BEFORE REUSE. WASH THOROUGHLY AFTER HANDLING.
Suppl. Safety & Health Data: THE TLV FOR OIL MIST IN AIR IS 5 MG/CUM.

Transportation Data

Disposal Data

Label Data

Label Required: YES
Label Status: G
Common Name: 115 LUBRIPLATE
Special Hazard Precautions: EYES/SKIN: IRRITATION. INHALATION: MINUTE AMOUNTS ASPIRATED INTO LUNGS MAY CAUSE MILD TO SEVERE PULMONARY INJURY. IRRITATION.
Label Name: FISKE BROS REFINING CO
Label Street: 129 LOCKWOOD ST
Label City: NEWARK
Label State: NJ
Label Zip Code: 07105-4720
Label Country: US
Label Emergency Number: 201-589-9150

FISKE BROS REFINING CO -- HO-0 LUBRIPLATE HYDRAULIC OIL -- 9150-00F003874

==========

MSDS Safety Information

==========

FSC: 9150
MSDS Date: 01/01/1996
MSDS Num: CGWHK
LIIN: 00F003874
Tech Review: 04/22/1998
Product ID: HO-0 LUBRIPLATE HYDRAULIC OIL
Responsible Party
Cage: 73219
Name: FISKE BROS REFINING CO
Address: 129 LOCKWOOD ST
City: NEWARK NJ 07105-4720 US
Info Phone Number: 201-589-9150
Emergency Phone Number: 201-589-9150
Preparer's Name: JAMES R KONTAK

==========

Preparer Co. when other than Responsible Party Co.

==========

Cage: 73219
Assigned Ind: N
Name: FISKE BROS REFINING CO
Address: 129 LOCKWOOD ST
City: NEWARK NJ 07105-4720

==========

Contractor Summary

==========

Cage: 73219
Name: FISKE BROS REFINING CO
Address: 129 LOCKWOOD ST
City: NEWARK NJ 07105-4720 US
Phone: 201-589-9150

==========

Ingredients

==========

Name: MINERAL OIL

Name: ADDITIVES

Name: ZINC COMPOUND
% by Wt: <2

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==========

Health Hazards Data

==========

Route Of Entry Inds - Inhalation: YES
Skin: NO
Ingestion: YES
Carcinogenicity Inds - NTP: NO
IARC: NO
OSHA: NO
Effects of Exposure: EYES: IRRITATION. SKIN: PROLONGED/REPEATED CONTACT MAY CAUSE IRRITATION. INGESTION: LOW TOXIC. MINUTE AMOUNTS ASPIRATED INTO THE LUNGS DURING INGESTION MAY CAUSE MILD TO SEVERE PULMONARY INJURY. IF IN JECTED BY HIGH PRESSURE UNDER SKIN, DELAY OF MEDICAL ATTENTION MAY CAUSE LOSS OF AFFECTED PART OF THE BODY.
Explanation Of Carcinogenicity: NONE
Signs And Symptions Of Overexposure: IRRITATION
First Aid: EYES: FLUSH W/CLEAR WATER FOR 15 MINS. SKIN: WASH W/SOAP & WATER. INHALATION: IMMEDIATELY REMOVE FROM EXPOSURE. INGESTION: DON'T INDUCE VOMITING. OBTAIN MEDICAL ATTENTION IN ALL CASES.

==========

Handling and Disposal
==========
Spill Release Procedures: RECOVER LIQUID, WASH REMAINDER W/SUITABLE PETROLEUM SOLVENT/ADD ABSORBENT. KEEP PETROLEUM OUT OF SEWERS & WATER COURSES.
Waste Disposal Methods: DISPOSE OF ABSORBED MATERIAL AT AN APPROVED WASTE DISPSOAL FACILITY/SITE IAW/LOCAL, STATE & FEDERAL REGULATIONS.
Handling And Storage Precautions: KEEP CONTAINERS CLOSED WHEN NOT IN USE. DON'T HANDLE/STORE NEAR HEAT, SPARKS, FLAME/STRONG OXIDANTS.
Other Precautions: AVOID BREATHING OIL MIST.
==========
Fire and Explosion Hazard Information
==========
Flash Point Method: COC
Flash Point Text: 415-480F
Lower Limits: 0.9
Upper Limits: 7
Extinguishing Media: FOAM, DRY CHEMICAL, CO2/WATER SPRAY (FOG)
Fire Fighting Procedures: COOL EXPOSED CONTAINERS W/WATER. USE AIR SUPPLIED BREATHING EQUIPMENT FOR ENCLOSED/CONFINED SPACES.
Unusual Fire/Explosion Hazard: DON'T STORE/MIX W/STRONG OXIDANTS. EMPTY CONTAINERS RETAIN RESIDUE. DON'T CUT, DRILL, GRIND/WELD AS THEY MAY EXPLODE.
==========
Control Measures
==========
Respiratory Protection: NORMALLY NOT NEEDED
Ventilation: LOCAL EXHAUST: USED TO CAPTURE FUMES & VAPORS.
Protective Gloves: OIL-RESISTANT
Eye Protection: GOGGLES
Other Protective Equipment: OIL RESISTANT APRON
Work Hygienic Practices: REMOVE/LAUNDER CONTAMINATED CLOTHING BEFORE REUSE. CLEANS THOROUGHLY AFTER CONTACT.
==========
Physical/Chemical Properties
==========
B.P. Text: >550F
Vapor Pres: <0.01
Vapor Density: >5
Spec Gravity: 0.87-0.89
Solubility in Water: NEGLIGIBLE
Appearance and Odor: TRANSPARENT AMBER LIQUID W/MINERAL OIL ODOR
==========
Reactivity Data
==========
Stability Indicator: YES
Stability Condition To Avoid: HEAT, SPARKS, FLAME
Materials To Avoid: STRONG OXIDANTS; LIQUID CHLORINE, CONCENTRATED OXYGEN
Hazardous Decomposition Products: SULFUR DIOXIDE; CO
Hazardous Polymerization Indicator: NO
==========
Toxicological Information
==========
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Ecological Information
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MSDS Transport Information
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Regulatory Information
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Other Information
==========
==========
HAZCOM Label
==========
Product ID: HO-0 LUBRIPLATE HYDRAULIC OIL
Cage: 73219
Company Name: FISKE BROS REFINING CO
Street: 129 LOCKWOOD ST
City: NEWARK NJ
Zipcode: 07105-4720 US
Health Emergency Phone: 201-589-9150
Date Of Label Review: 10/12/1999
Hazard And Precautions: EYES: IRRITATION. SKIN: PROLONGED/REPEATED CONTACT MAY CAUSE IRRITATION. INGESTION: LOW TOXIC. MINUTE AMOUNTS ASPIRATED INTO THE LUNGS DURING INGESTION MAY CAUSE MILD TO SEVERE PULMONARY INJURY. IF IN JECTED BY HIGH PRESSURE UNDER SKIN, DELAY OF MEDICAL ATTENTION MAY CAUSE LOSS OF AFFECTED PART OF THE BODY.
==========
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Material Safety Data Sheet

SECTION I - Material Identity
SECTION II - Manufacturer's Information
SECTION III - Physical/Chemical Characteristics
SECTION IV - Fire and Explosion Hazard Data
SECTION V - Reactivity Data
SECTION VI - Health Hazard Data
SECTION VII - Precautions for Safe Handling and Use
SECTION VIII - Control Measures
SECTION IX - Label Data
SECTION X - Transportation Data
SECTION XI - Site Specific/Reporting Information
SECTION XII - Ingredients/Identity Information

SECTION I - Material Identity

Item Name	
Part Number/Trade Name	LUBRIPLATE "100"SERIES #105
National Stock Number	9150000584452
CAGE Code	73219
Part Number Indicator	A
MSDS Number	89095
HAZ Code	B

SECTION II - Manufacturer's Information

Manufacturer Name	FISKE BROTHERS REFINING COMPANY
P.O. Box	N/K
Street	129 LOCKWOOD STREET
City	NEWARK
State	NJ
Country	US
Zip Code	07105-4720
Emergency Phone	201-589-9150
Information Phone	201-589-9150

FJK000083

MSDS Preparer's Information

MSDS Preparer Name	ROBERT J.SIBILIA
Date MSDS Prepared/Revised	01JUN89

932110100

Date of Technical Review	15FEB90
Active Indicator	N
Item Manager	CX

Alternate Vendors

Vendor #1 Name	LUBRICANT PACKAGING SUPPLY COMPANY
Vendor #1 CAGE	8A122
Vendor #5 CAGE	BHJJP

SECTION III - Physical/Chemical Characteristics

Specification Number	N/R
Specification Type/Grade/Class	N/R
Hazard Storage Compatibility Code	N1-F6
NRC License Number	N/R
Net Propellant Weight (Ammo)	N/R
Appearance/Odor	SMOOTH,WHITE GREASE WITH MINERAL OIL ODOR
Boiling Point	>550F,>288C
Melting Point	SEMI-SOLID
Vapor Pressure	<0.01
Vapor Density	>5.0
Specific Gravity	0.89-0.93
Evaporation Rate	<0.01(N-BUTYL ACETATE =)
Solubility in Water	NEGLIGIBLE
Percent Volatiles by Volume	N/K
Chemical pH	N/K
Container Pressure Code	4
Temperature Code	8
Product State Code	U

SECTION IV - Fire and Explosion Hazard Data

Flash Point	360
Flash Point Method	UNK
Lower Explosion Limit	0.9
Upper Explosion Limit	7.0
Extinguishing Media	USE CARBON DIOXIDE, FOAM, DRY CHEMICAL, OR WATER FOG
Special Fire Fighting Procedures	FIRE FIGHTERS SHOULD USE NIOSH APPROVED SCBA & FULL PROTECTIVE EQUIPMENT WHEN FIGHTING CHEMICAL FIRE. USE WATER SPRAY TO COOL NEARBY CONTAINERS EXPOSED TO FIRE
Unusual Fire/Explosion Hazards	MAY EXPLODE OR EXCESSIVE HEAT MAY CAUSE PRODUCTION OF HAZARDOUS DECOMPOSITION PRODUCTS

SECTION V - Reactivity Data

Stability	YES
Stability Conditions to Avoid	HIGH TEMPERATURES
Materials to Avoid	STRONG OXIDIZING AGENTS,LIQUID CHLORINE,OR CONC.OXYGEN
Hazardous Decomposition Products	A MIXTURE OF AIRBORNE SOLID, LIQUID PARTICULATES AND GASES (CO) WILL EVOLVE WHEN THIS MATERIAL UNDERGOES COMBUSTION
Hazardous Polymerization	NO
Polymerization Conditions to Avoid	NOT APPLICABLE
LD50 - LD50 Mixture	N/K

SECTION VI - Health Hazard Data

Route of Entry: Skin	YES
Route of Entry: Ingestion	YES
Route of Entry: Inhalation	NO
Health Hazards - Acute and Chronic	ACUTE: EYE:MAY BE MILDLY IRRITATING. SKIN:RELEASE DURING HIGH PRESSURE USAGE MAY RESULT IN INJECTION OF OIL INTO THE SKIN CAUSING IRRITAION.INHALATION:NOT EXPECTED TO BE A RELEVANT ROUTE OF EXPOSURE; HIGH TEMPERATURE VAPORS IRRITATE RESPIRATORY TRACT. INGESTION:LOW LEVEL OF TOXICITY. CHRONIC: SKIN DISORDERS
Carcinogenity: NTP	NO
Carcinogenity: IARC	NO
Carcinogenity: OSHA	NO
Explanation of Carcinogenity	DATA PER MSDS
Symptoms of Overexposure	DATA PER MSDS
Medical Cond. Aggrevated by Exposure	PRE-EXISTING SKIN DISORDERS MAY BE AGGRAVATED BY EXPOSURE TO THIS PRODUCT
Emergency/First Aid Procedures	INHALATION: REMOVE TO FRESH AIR. GIVE OXYGEN IF BREATHING IS DIFFICULT. GET MEDICAL ATTENTION. EYE: FLUSH WITH WATER FOR 15 MINUTES WHILE HOLDING EYELIDS OPEN. GET MEDICAL ATTENTION. SKIN: WASH WITH SOAP & WATER/WATERLESS CLEANER. REMOVE CONTAMINATED CLOTHING. IF IRRITATION PERSISTS, GET MEDICAL ATTENTION. INGESTION: DO NOT INDUCE VOMITING. IN GENERAL, NO TREATMENT IS REQUIRED. GET MEDICAL ADVICE

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SECTION VII - Precautions for Safe Handling and Use

Steps if Material Released/Spilled	SCOOP UP EXCESS GREASE. CLEAN AREA WITH APPROPRIATE CLEANER
Neutralizing Agent	NONE SPECIFIED BY MANUFACTURER

Waste Disposal Method	DISPOSE OF IN AN APPROPRIATE DISPOSAL FACILITY IN COMPLIANCE WITH LOCAL REGULATIONS
Handling and Storage Precautions	RE IN A COOL, DRY PLACE WITH ADEQUATE VENTILATION. KEEP CONTAINERS TIGHTLY CLOSED WHEN NOT IN USE. KEEP AWAY FROM OPEN FLAMES & HIGH TEMPERATURES. MI
Other Precautions	MINIMIZE SKIN CONTACT. WASH WITH SOAP & WATER BEFORE EATING, DRINKING, SMOKING OR USING TOILET FACILITIES. LAUNDER CONTAMINATED CLOTHING BEFORE REUSE. PROPERLY DISPOSE OF CONTAMINATED LEATHER ARTICLES (SHOES) THAT CAN NOT BE DECONTAMINATED

SECTION VIII - Control Measures

Respiratory Protection	RESPIRATORY PROTECTION NOT ORDINARILY REQUIRED.USE NIOSH/MSHA APPROVED RESPIRATOR FOR ORGANIC VAPORS/MIST IF AVOVE PEL/TLV
Ventilation	NONE REQUIRED,USE LOCAL/GENERAL TO MAINTAIN PEL/TLV IN CASE OF MIST/VAPORS
Protective Gloves	RUBBER AS REQUIRED
Eye Protection	SAFETY GLASSES RECOMMENDED
Other Protective Equipment	EYE WASH STATION WORK CLOTHING AND APRON AS REQUIRED
Work Hygenic Practices	OBSERVE GOOD PERSONAL HYGIENE PRACTICES AND RECOMMENDED PROCEDURES. DO NOT WEAR CONTAMINATED CLOTHING OR FOOTWEAR
Supplemental Health/Safety Data	DO NOT GET IN EYES OR ON CLOTHING
Disposal Code	O

SECTION IX - Label Data

Protect Eye	NO
Protect Skin	NO
Protect Respiratory	NO
Chronic Indicator	UNKNOWN
Contact Code	UNKNOWN
Fire Code	UNKNOWN
Health Code	UNKNOWN
React Code	UNKNOWN
Specific Hazard and Precaution	ACUTE: EYE:MAY BE MILDLY IRRITATING. SKIN:RELEASE DURING HIGH PRESSURE USAGE MAY RESULT IN INJECTION OF OIL INTO THE SKIN CAUSING IRRITAION.INHALATION:NOT EXPECTED TO BE A RELEVANT ROUTE OF EXPOSURE; HIGH TEMPERATURE VAPORS IRRITATE

FJK000086

RESPIRATORY TRACT. INGESTION:LOW LEVEL OF TOXICITY. CHRONIC: SKIN DISORDERS. DATA PER MSDS

SECTION X - Transportation Data

Container Quantity	10
Unit of Measure	OZF

SECTION XI - Site Specific/Reporting Information

Volatile Organic Compounds (P/G)	0
Volatile Organic Compounds (G/L)	0

SECTION XII - Ingredients/Identity Information

Ingredient #	01
Ingredient Name	CALCIUM SOAP
CAS Number	N/K
NIOSH Number	1002172CS
Proprietary	NO
Percent	N/K
OSHA PEL	NOT ESTABLISHED
ACGIH TLV	NOT ESTABLISHED
Recommended Limit	NOT ESTABLISHED
Ingredient #	02
Ingredient Name	MINERAL OIL
CAS Number	N/K
NIOSH Number	1003240MO
Proprietary	NO
Percent	N/K
OSHA PEL	NOT ESTABLISHED
ACGIH TLV	NOT ESTABLISHED
Recommended Limit	NOT ESTABLISHED
Ingredient #	03
Ingredient Name	ADDITIVES
CAS Number	UNKNOWN
NIOSH Number	1000144AD
Proprietary	NO
Percent	N/K
OSHA PEL	UNKNOWN
ACGIH TLV	UNKNOWN
Recommended Limit	NOT ESTABLISHED
Ingredient #	04
Ingredient Name	(ZNCPD) ZINC COMPOUND,(CONTAINING < 5% OF ZN)
CAS Number	N/K
NIOSH Number	1004580ZC

FJK000087

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Proprietary	NO
Percent	N/K
OSHA PEL	NOT ESTABLISHED
ACGIH TLV	NOT ESTABLISHED
Recommended Limit	NOT ESTABLISHED

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Material Safety Data Sheet

SECTION I - Material Identity
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SECTION V - Reactivity Data
SECTION VI - Health Hazard Data
SECTION VII - Precautions for Safe Handling and Use
SECTION VIII - Control Measures
SECTION IX - Label Data
SECTION X - Transportation Data
SECTION XI - Site Specific/Reporting Information
SECTION XII - Ingredients/Identity Information

SECTION I - Material Identity

Item Name	
Part Number/Trade Name	LUBRIPLATE AIR TOOL LUBRICANT
National Stock Number	9150L400653F
CAGE Code	73219
Part Number Indicator	A
MSDS Number	184026
HAZ Code	B

SECTION II - Manufacturer's Information

Manufacturer Name	FISKE BROS REFINING CO
P.O. Box	N/K
Street	129 LOCKWOOD ST
City	NEWARK
State	NJ
Country	US
Zip Code	07105-4720
Emergency Phone	201-589-9150
Information Phone	201-589-9150

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MSDS Preparer's Information

Street	129 LOCKWOOD ST
City	NEWARK

932110106

State	NJ
Zip Code	07105-4720
Date MSDS Prepared/Revised	01FEB95
Date of Technical Review	04APR96
Active Indicator	N

Alternate Vendors

Vendor #5 CAGE	BZBXP

SECTION III - Physical/Chemical Characteristics

Appearance/Odor	AMBER OIL W/SWEET ODOR
Boiling Point	>550F
Melting Point	LIQUID
Vapor Pressure	<5
Vapor Density	>5
Specific Gravity	0.88
Decomposition Temperature	N/K
Evaporation Rate	N/K
Solubility in Water	NEGLIGIBLE
Percent Volatiles by Volume	N/K
Chemical pH	N/K
Corrosion Rate	N/K
Container Pressure Code	4
Temperature Code	8
Product State Code	U

SECTION IV - Fire and Explosion Hazard Data

Flash Point Method	COC
Lower Explosion Limit	0.9
Upper Explosion Limit	7
Extinguishing Media	FOAM, DRY CHEMICAL, CO2, WATER SPRAY (FOG)
Special Fire Fighting Procedures	COOL EXPOSED CONTAINERS W/WATER. USE AIR-SUPPLIEDBREATHING EQUIPMENT FOR ENCLOSED/CONFINED SPACES
Unusual Fire/Explosion Hazards	DON'T CUT, DRILL, GRIND/WELD AS THEY MAY EXPLODE

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SECTION V - Reactivity Data

Stability	YES
Stability Conditions to Avoid	EXCESSIVE HEAT, SPARKS/OPEN FLAMES
Materials to Avoid	STRONG OXIDANTS, LIQUID CHLORINE, CONCENTRATED OXYGEN
Hazardous Decomposition Products	SULFUR DIOXIDE. IF INCOMPLETE COMBUSTION, CO2 & HYDROGEN CHLORIDE

Hazardous Polymerization	NO
Polymerization Conditions to Avoid	N/K

SECTION VI - Health Hazard Data

Route of Entry: Skin	NO
Route of Entry: Ingestion	NO
Route of Entry: Inhalation	NO
Health Hazards - Acute and Chronic	SKIN/EYES: PROLONGED/REPEATEDCONTACT MAY CAUSE IRRITATION. EXPOSURE TO LIQUIDS, VAPORS, MISTS & FUMES SHOULD BE MINIMIZED. PRODUCT HAS A LOW ORDER OF ACUTE ORAL TOXICITY
Carcinogenity: NTP	NO
Carcinogenity: IARC	NO
Carcinogenity: OSHA	NO
Explanation of Carcinogenity	NONE
Symptoms of Overexposure	IRRITATION
Medical Cond. Aggrevated by Exposure	N/K
Emergency/First Aid Procedures	EYES: FLUSH W/CLEAR WATER FOR 15 MINS. SKIN: WASHW/SOAP & WARM WATER. INHALATION: REMOVE TO FRESH AIR. INGESTION: DON'T INDUCE VOMITING. OBTAIN MEDICAL ATTENTION IN ALL CASES

SECTION VII - Precautions for Safe Handling and Use

Steps if Material Released/Spilled	HANDLE AS AN OIL SPILL. AVOID BREATHING VAPORS/MIST. USE ADEQUATE VENTILATION
Neutralizing Agent	N/K
Waste Disposal Method	DISPOSE OF CHEMICAL WASTE IAW/FEDERAL, STATE & LOCAL REGULATIONS
Handling and Storage Precautions	STORE AT TEMPS <100F. STORE IN A COOL, DRY AREA IN TIGHTLY CLOSED CONTAINERS. USE ADEQUATE VENTILATION. AVOID EXCESSIVEHEAT, SPARKS/OPEN FLAMES
Other Precautions	AVOID PROLONGED/REPEATED SKIN CONTACT/BREATHING OIL MIST. NORMAL HYGIENIC & SAFETY PRECAUTIONS SHOULD BE OBSERVED WHEN HANDLING CHEMICALS. DON'T STORE/MIX W/STRONG OXIDANTS. EMPTY CONTAINERS RETAIN RESIDUE

SECTION VIII - Control Measures

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Respiratory Protection	IF CONCENTRATED VAPORS ARE PRESENT & ADEQUATE VENTILATION IN UNAVAILABLE, USE PROPER RESPIRATOR FOR ORGANIC VAPORS

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Ventilation	LOCAL EXHAUST/MECHANICAL (GENERAL)
Protective Gloves	PLASTIC/RUBBER
Eye Protection	CHEMICAL SPLASH GOGGLES
Other Protective Equipment	AIR MONITORING SHOULD BE PERFORMED IF OPERATIONS CAUSE AIR CONCENTRATIONS APPROACHING PEL LIMITS

SECTION IX - Label Data

Protect Eye	NO
Protect Skin	NO
Protect Respiratory	NO
Chronic Indicator	UNKNOWN
Contact Code	UNKNOWN
Fire Code	UNKNOWN
Health Code	UNKNOWN
React Code	UNKNOWN

SECTION X - Transportation Data

Container Quantity	1
Unit of Measure	QT

SECTION XI - Site Specific/Reporting Information

Volatile Organic Compounds (P/G)	0
Volatile Organic Compounds (G/L)	0

SECTION XII - Ingredients/Identity Information

Ingredient #	1
Ingredient Name	O-DICHLOROBENZENE, 1,2-DICHLOROBENZENE (ORTHO)
CAS Number	95501
NIOSH Number	CZ4500000
Proprietary	NO
Percent	3
OSHA PEL	300 MG/CUM
ACGIH TLV	301 MG/CUM
Recommended Limit	50 PPM
Ingredient #	2
Ingredient Name	PETROLEUM LUBE OIL
CAS Number	1003
NIOSH Number	1010405LO
Proprietary	NO
Percent	0
OSHA PEL	N/K

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ACGIH TLV	N/K
Recommended Limit	N/K

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13

932110111

ANNUAL REPORT

by

Chief Engineer
S. A. LUBETKIN

to the

PASSAIC VALLEY SEWERAGE COMMISSIONERS

FJK000094

FOR THE YEAR

1973

932110112

Violation and Elimination - Fair Lawn Water Pollution Control Facilities, 2-01 Saddle River Road, Fair Lawn, N.J.
Intermittent (M. Tomaro)

This activated sludge plant treats an average daily flow of 2.7 million gallons per day and discharges its chlorinated effluent to Saddle River, a tributary of the Passaic River. The sludge is digested and dried in lagoons. The licensed operator is Donald Eelman. The Commissioners monitor the discharge from this plant routinely.

In 1973 of 47 samples taken 6 were unsatisfactory as follows:

May 17, 1973: Sample had a slightly high C.O.D., turbidity and suspended solids. Upon reporting this to the Chief Operator, the inspector was informed that on the morning of May 17, two aeration tanks were being cleaned, and therefore some activated sludge was carried over to the effluent from the temporarily overloaded remaining units. Things were back to normal the following day.

September 12, 26, October 24, 31 and November 8, 1973: These samples, generally speaking had a slightly high turbidity, suspended solids & B.O.D. and was explained by a plant "upset". It is to be noted that the samples for the remainder of the year were satisfactory.

Violation and Elimination - Fiske Bros. Refining Co. 129 Lockwood Street, Newark, N.J.
February 7, 1973 (J.McLaughlin)

While making routine inspections of his district , Inspector J. McLaughlin saw the hose coupling strap from a Tank Truck break, releasing approximately 60-75 gallons of bright stock oil into Esther St. The tank truck was owned by Tank Truck Rentals of Croydon, Pa. and was on lease to Chemical Leaman Tank Lines, Inc. of Downingtown, Pa. making a delivery to Fiske Bros.

The driver notified his terminal manager in Pennsylvania while Inspector Mc Laughlin contacted Mr. Louis De Nicola the terminal manager for Chemical Leaman in Newark. Mr. Di Nicola contacted Sampson Tank Cleaning Co., Bayonne, to clean up the oil.

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Meanwhile Mr. Clifford Wolf, Supt. of Fiske Bros., directed two Fiske employees and the driver in preventing the oil from flowing into the catch basin at Lister and Esther Streets by spreading oil-dry over the area.

Violation and Elimination - Fiske Bros. (con't.)

Sampson Tank Cleaning Co., crew and equipment arrived at approximately 4:30 P.M. and completed the clean-up and removal at 5:30 P.M.

Violation and Elimination - Glamorene Products Corp. 175 Entin Rd., Clifton, N.J.
March 26, 1973 (F. Wendt)

At 11:30 A.M. on March 26, 1973, Mrs. Molnar of Rutherford , N.J. called P.V.S.C. and reported that a white discharge was comi from the Entin Storm Sewer.

Inspector Wendt was assigned and found that the Glamorene Products Corp., was the source of the pollution. Two cases of liquid detergent fell and broke during a delivery to this company. Company employees then hosed down the material into the storm sewer thence the Passaic River.

Mr. Noll, the Plant Manager,was warned that if there was a repetition of this type of accident, he should not wash it into the storm sewer but should apply an absorbent material or vacuum i up and wash it into the sanitary sewer.

Violation and Elimination - City of Hackensack, So. Summit Avenue Storm Sewer
May 17 - December 14, 1973 (J. Perrapato)

While tracing the oil in Millbank Brook back to its source, Mr. Lubetkin noticed a small flow from a storm drain on the Raywin Realty property, which appeared to come from South Summit Avenue, Hackensack. On May 17, 1973, a sample was taken and found to be polluting (very high fecal coliform count, high turbidity, suspended solids, and C.O.D.).

On May 24, 1973, Mr. Richard Galofaro, Sanitarian of the Borough of Lodi, wrote to the PVSC, stating that a joint inspection was conducted by the Lodi and Hackensack Health Departments concerning the sewage discharge into Lodi waterways. A dye test had proved negative, and further testing was to be done by the Hackensack Health Department. Mr. Galofaro requested a copy of the analysis, which was sent to him on June 5, 1973.

SDMS Document
93211

PRP CASES FOR THE LOWER PASSAIC RIVER STUDY AREA

PRP DATA EXTRACTION FORMS AND EVIDENCE CONCERNING:

FISKE BROTHERS REFINING CO.

PREPARED FOR:

LOWER PASSAIC RIVER STUDY AREA
COOPERATING PARTIES GROUP

SUBMITTED TO:
USEPA REGION II

DECEMBER 27, 2005

932110001

Fiske Brothers Refining Co.

932110002

PRP CASES
FOR THE
LOWER PASSAIC RIVER STUDY AREA

FISKE BROTHERS REFINING CO.

INDEX OF EVIDENCE

Tab No.	Year	Day and Month	Description
1	1995-2005		NJDEP Waste Manifest Report
2	2002	3-Oct	Renewal Authorization to Discharge Stormwater under NJPDES General Permit NJ0088315
3	1999	10-Dec	Request for Authorization Form (RFA)
4	2000	5-Jan	Authorization to Discharge Stormwater under NJPDES General Permit No. NJ0088315
5	1999	19-Nov	Letter from NJDEP to Fiske Brothers regarding failure to submit a Discharge to Surface Water permit application
6	2000	28-Jun	Stormwater Pollution Prevention Plan (SPPP) Certification
7	1978	September	City of Newark, New Jersey Feasibility Study: Pollution Abatement Program
8	2005	7-Dec	D&B Report on Fiske Brothers Refining Co.
9	2005	7-Dec	New Jersey Trade and Manufacturer's Catalogs showing Lubriplate as a division of Fiske Brothers from 1950-1960
10	2003	14-Oct	World Wide Web article, "Success Stories: Fiske Brothers Refining Co."
11	Undated		Lubriplate Lubrication Date Book
12	Various		MSDSs for Fiske Brothers Products
13	1973		Annual Report to the Passaic Valley Sewerage Commision

NEW JERSEY DEPARTMENT OF ENVIRONMENTAL PROTECTION
DIVISION OF HAZARDOUS WASTE MANAGEMENT

WASTE MANIFESTS FROM 01/01/95 TO 05/23/05
FROM GENERATOR NJD002153070 TO SPECIFIED TSDF'S

GENERATOR	TSDF	MANIFEST	DATE SHIPPED	WASTE CODE	WASTE NAME	QUANTITY
FISKE BROTHERS REFINING CO. 129 LOCKWOOD ST. NEWARK , NJ NJD002153070	CYCLE CHEM INC 217 S FIRST ST ELIZABETH , NJ NJD002200046	NJA3083395	01/19/00	D002	CHARACTERISTIC OF CORROSIVITY	2000 P
				F003	NON HAL SOLV & STLBTM	60 G
		NJA3083400	01/19/00	D002	CHARACTERISTIC OF CORROSIVITY	110 G
				D001	CHARACTERISTIC OF IGNITABILITY	55 G

Div of Solid and Haz
FJK waste permits

Fiske Brothers

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NEW JERSEY DEPARTMENT OF ENVIRONMENTAL PROTECTION
DIVISION OF HAZARDOUS WASTE MANAGEMENT

WASTE MANIFESTS FROM 01/01/80 TO 12/31/94
FROM GENERATOR NJD002153070 TO SPECIFIED TSDF'S

GENERATOR	TSDF	MANIFEST	DATE SHIPPED	WASTE CODE	WASTE NAME	QUANTITY
FISKE BROTHERS REFINING CO. 129 LOCKWOOD ST. NEWARK , NJ NJD002153070	CITY DISPOSAL/ENVIRONMENTAL 1550 HARPER DETROIT , MI NJC876005257	MI01693100	08/14/90	X725	OIL SPILL CLEANUP MATERIAL	57450 P
		MI01703727	09/18/90	X725	OIL SPILL CLEANUP MATERIAL	11500 P

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State of New Jersey

James E. McGreevey
Governor

Department of Environmental Protection

Bradley M. Campbell
Commissioner

Bureau of Nonpoint Pollution Control
Division of Water Quality
P.O. Box 029 Trenton, NJ 08625-0029
Phone : 609-633-7021, 292-0407
Fax: 609-984-2147

10/02/2002

William Chappell
FISKE BROTHERS REFINING CO
129 LOCKWOOD ST

Newark, NJ 07105

Fiske Brothers
Bureau of Nonpoint Pollution Control

Re: 5G2 -General Permit Stormwater Basic **NJ0088315**
NJPDES: NJG0135992 PI ID #: 50467
FISKE BROTHERS REFINING CO
Newark, Essex

Dear William Chappell:

Your facility is currently authorized to discharge stormwater under General Permit NJPDES No. NJ0088315. The version of the general permit under which you previously were authorized has expired. However, this permit has been renewed until May 31, 2007. Please find enclosed your Renewal Authorization to Discharge Stormwater under NJPDES General Permit **NJ0088315** and a copy of that permit. All co-permittees will receive original Authorizations. One of these Authorization forms is requested to be LOCATED at the regulated facility at all times and be AVAILABLE for inspection by any authorized representative of the New Jersey Department of Environmental Protection. If you have designated an agent, it is your responsibility to notify your agent about this General Permit Authorization and its requirements.

Enclosed is the final General Permit NJ0088315. Please be advised that the renewed General Permit requires that all stormwater associated with industrial activities, including that discharged to groundwater, must meet the Best Management Practice of no exposure. You were advised of this new condition in the draft permit information you received as part of the permit renewal process. Please submit your certification, as described below, prior to the required deadline.

Also enclosed is an *ATTACHMENT D Annual Recertification* that must be submitted to the Bureau each year. You are required to annually review your facility and submit a certification attesting that the facility meets all the requirements of the permit. This form will be due in the calendar quarter in which the month of Attachment D – SPPP *Initial Implementation and Inspection Certification* falls. The due date will be a three month quarter as assigned on your authorization page (see "Annual Recertification Due" on your Authorization page).

Copies of the revised SPPP Guidance Manual and other forms including the *Annual Recertification Attachment D*, will available at the Department's web site: http://www.state.nj.us/dep/dwq/stormw.htm. If you do not have access to the web site please contact the Bureau of Nonpoint Pollution Control at the above address for a copy.

Should any information about your facility, i.e., mailing address, contact person, etc. change, please contact the Bureau for a Administrative Update Form. If your facility is sold, closing or moving its location please write the Bureau for instructions.

The Department appreciates your efforts toward accomplishing the goal of providing cleaner water for our State and looks forward to working together with you in the future. If you have any questions please contact the Bureau.

Sincerely,

Barry Chalofsky, P.P., Chief
Bureau of Nonpoint Pollution Control

Enclosures: (2)
Renewed Authorization to Discharge (ATD)
NJPDES General Permit No. **NJ0088315**

C: (w/ATD Form): NJDEP Water Compliance and Enforcement Region Office
Facility Owner (if applicable)
Debbie Esposti, BPM

New Jersey Department of Environmental Protection
Bureau of Nonpoint Pollution Control
Division of Water Quality
PO Box 029
Trenton, NJ 08625-0029
Phone: (609) 633-7021
Fax: (609) 984-2147

RENEWAL OF AUTHORIZATION TO DISCHARGE
5G2 -General Permit Stormwater Basic

Facility Name: FISKE BROTHERS REFINING CO

PI ID #: 50467

Facility Address:
129 LOCKWOOD ST
NEWARK, NJ 07105

NJPDES #: NJG0135992

SIC Code: 2992

Annual Recertification Due: Jan - Mar

Type of Activity: Stormwater Discharge General Permit Authorization Renewal

Owner:
FISKE BROTHERS REFINING CO
129 LOCKWOOD ST
NEWARK, NJ 07105

Operating Entity:
FISKE BROTHERS REFINING CO
129 LOCKWOOD ST
NEWARK, NJ 07105

Issuance Date:	Effective Date:	Expiration Date:
10/03/2002	06/01/2002	05/31/2007

Your Request for Authorization under NJPDES General Permit No. NJ0088315 has been approved by the New Jersey Department of Environmental Protection.

Date: 10/03/2002

Barry Chalofsky, P.P., Chief
Bureau of Nonpoint Pollution Control
Division of Water Quality
New Jersey Department of Environmental Protection

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New Jersey Department of Environmental Protection
Bureau of Nonpoint Pollution Control
PO Box 029
Trenton, N.J. 08625-0029

ATTACHMENT "D"

Stormwater Pollution Prevention Plan (SPPP)

Initial Implementation and Inspection Certification

Basic Industrial General Permit No. NJ0088315

(N.J.A.C. 7:14A-11 Appendix A)

RECEIVED JUL 12 2001 NJDEP DIVISION OF WATER QUALITY BUREAU OF NONPOINT POLLUTION CONTROL

RECEIVED JUL 12 2001 NJDEP DIVISION OF WATER QUALITY BUREAU OF NONPOINT POLLUTION CONTROL

SWG: A- 021737 # 50467 NJPDES Permit # NJ0135992

SUBMIT THIS FORM ONCE, AFTER SPPP IS IMPLEMENTED. FOR EXISTING FACILITIES, THE SPPP MUST BE IMPLEMENTED WITHIN 18 MONTHS OF AUTHORIZATION UNLESS THE DEPARTMENT GRANTS AN EXTENSION.

"I certify under penalty of law that this Stormwater Pollution Prevention Plan Implementation and Inspection Certification and all attached documents were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate this information. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering this information, the information in this Stormwater Pollution Prevention Plan Implementation and Inspection Certification and all attached documents is, to the best of my knowledge and belief, true, accurate and complete.

"I certify that the facility has been inspected to identify areas contributing to the stormwater discharge authorized under NJPDES permit No. NJ0088315 and to evaluate whether the stormwater pollution prevention plan (SPPP) prepared under that permit complies with part III.A. of that permit and is being properly implemented.

"I certify that the stormwater pollution prevention plan referred to in this Stormwater Pollution Prevention Plan Implementation and Inspection Certification has been and will continue to be fully implemented at this facility in accordance with the terms and conditions of part III of NJPDES Permit No. NJ0088315. I specifically certify that there is no exposure, during and after storm events, of industrial materials, machinery, waste products or other source materials located at the facility, to stormwater that is discharged to surface waters and regulated under that NJPDES permit (except for any incidents of non-compliance identified in the attached report). I also specifically certify that this facility does not generate and discharge, through storm sewers to surface waters, any domestic sewage, non-contact cooling water, or process waste water (including leachate and contact cooling water) other than stormwater, unless that discharge is authorized by another NJPDES permit or identified in an application (o request for authorization) submitted for another NJPDES permit.

"I also certify that this facility is not in violation of any conditions of NJPDES Permit No. NJ0088315, including requirements in part III of that permit for preparation and implementation of a stormwater pollution prevention plan, except for any incidents of noncompliance (which are noted in the attached report). For any incidents of noncompliance identified in the annual inspection (or made known to me during the course of the past year), I have attached a report identifying these

N.J.D.E.P. Bureau of Nonpoint Pollution Control

ANNUAL REPORT

Worksheet #13
Completed by: William H. Chappell
Title: Chief Lubrication Engineer
Date: June 29, 2001

Instructions: Summarize each annual inspection. Indicate whether the facility was in compliance with the SPPP and the conditions of this permit. In the case of noncompliance the report shall identify measures taken to remedy any noncompliance. This report must be signed and dated and kept with SPPP for five years.

We have conducted an annual inspection evaluating all areas that discharge stormwater authorized by this permit, including:

- the removal or covering of source material;
- areas where good housekeeping practices are used;
- activities for preventive maintenance;
- visual inspections for sources of pollution;
- structures for diverting stormwater; and
- training for stormwater pollution prevention team members.

Our facility has maintained each of the BMPs outlined in the SPPP. We have made necessary repairs or maintenance as needed. We will pursue more training for stormwater pollution prevention awareness by seeking seminars concerning said stormwater pollution prevention and permitting. The annual inspection determined that the SPPP has been properly implemented, and has eliminated exposure of source material to stormwater, and that no additional measures are required. Therefore, Fiske Brothers Refining Co. is in compliance with the SPPP and the conditions of the Basic Industrial Stormwater General Permit (NJ0088315)

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William H. Chappell
Signature

6/29/01
Date

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DEC 13 1999 12/21/99

Bureau of Nonpoint Pollution Control

Division of Water Quality

New Jersey Department of Environmental Protection

FOR STATE USE ONLY		
SWGA #	A-021737	
NJPDES #	NJ0135992	
Date Rec'd	12-21-99	
Amount Rec'd	$ 500.00	
	YES	NO
Check Rec'd	✓	
A/A Rec'd	✓	
SPPP Rec'd		✓
Cert. Signed		
Staff	Gaddis	

Request for Authorization (RFA) Form

NJPDES Basic Industrial Stormwater General Permit No. NJ0088315

(N.J.A.C. 7:14A-11 Appendix A)

Stormwater Discharge Associated with Industrial Activity

0714

Please read and follow all the instructions carefully (see attached instructions). Any omissions may delay your permit authorization issuance. **Sign and Date** where indicated. **Print or Type** all information.

1. Facility Information

A. Facility Name Fiske Brothers Refining Company

B. Location (number and street) 129 Lockwood Street

C. City or Town Newark D. County Essex

E. USEPA ID # (if assigned) NJD-002153070

F. Mailing Address 129 Lockwood Street

G. City or Town Newark

H. State & Zip Code New Jersey 07105-4782

I. SIC Code & Short Title 2992 Petroleum Products-Lubricating Oils & Greases

J. Contact Person & Telephone Number William Chappell

K. Parent Company Fiske Bros. Refining Co. Telephone # (973) 589-9150

Mailing Address 129 Lockwood Street

City or Town Newark

State New Jersey Zip Code 07105-4782

2. Property Owner (land)

A. Name Fiske Brothers Refining Co.

B. Permanent Legal Address 129 Lockwood Street

C. City or Town Newark D. State & Zip Code NJ 07105

E. Taxpayer Identification # or Social Security # 22-0913895

F. Owner Status (circle) 1. government 2. commercial 3. religious 4. charitable 5. public school

G. Telephone Number (973) 589-9150

FJK000008

RFA Certification

Attachment "A"

Basic Industrial Stormwater General Permit
NJPDES General Permit No. NJ0088315

"I certify under penalty of law that this Request for Authorization and all attached documents were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate and complete. As far as I know, none of the stormwater discharges for which this Request for Authorization is submitted are excluded from authorization by part I.B of NJPDES Permit No. NJ0088315.

"I am aware that pursuant to the Water Pollution Control Act, N.J.S.A. 58:10A-1 et seq., there are significant civil and criminal penalties for making a false statement, representation or certification in any application, record, or other document filed or required to be maintained under that Act, including fines and/or imprisonment."

WHO MUST SIGN?

FOR A CORPORATION: a "responsible corporate officer" or duly authorized representative. A "responsible corporate officer" is (i) a president, secretary, treasurer, or vice-president of the corporation in charge of a principal business function, or any other person who performs similar policy or decision-making functions for the corporation; or (ii) the manager of one or more manufacturing, production, or operating facilities employing more than 250 persons or having gross annual sales or expenditures exceeding $25 million (in second-quarter 1980 dollars), if authority to sign documents has been assigned or delegated to the manager in accordance with corporate procedures.

FOR A PARTNERSHIP OR SOLE PROPRIETORSHIP: a general partner or the proprietor, respectively, or duly authorized representative.

FOR A MUNICIPALITY, STATE, FEDERAL OR OTHER PUBLIC AGENCY: either a principal executive officer or ranking elected official, or duly authorized representative.

A "responsible corporate officer", general partner, proprietor, principal executive officer of a public agency, or ranking elected official may assign his or her signatory authority for this Certification to a duly authorized representative, which is a named person or generic position (e.g., plant manager, superintendent, plant engineer, operations manager, etc.) having overall responsibility for facility operation or the permittee's environmental matters, by submitting a letter to the Bureau of Permit Management stating said authority and naming the person or position.

Facility Name: Fiske Brothers Refining Company
(print)

(print, if applicable, name of corporation, partnership, or public agency submitting this certification)

(signature) — Richard T. McCluskey (print name)

President & CEO (title) — December 10, 1999 (date)

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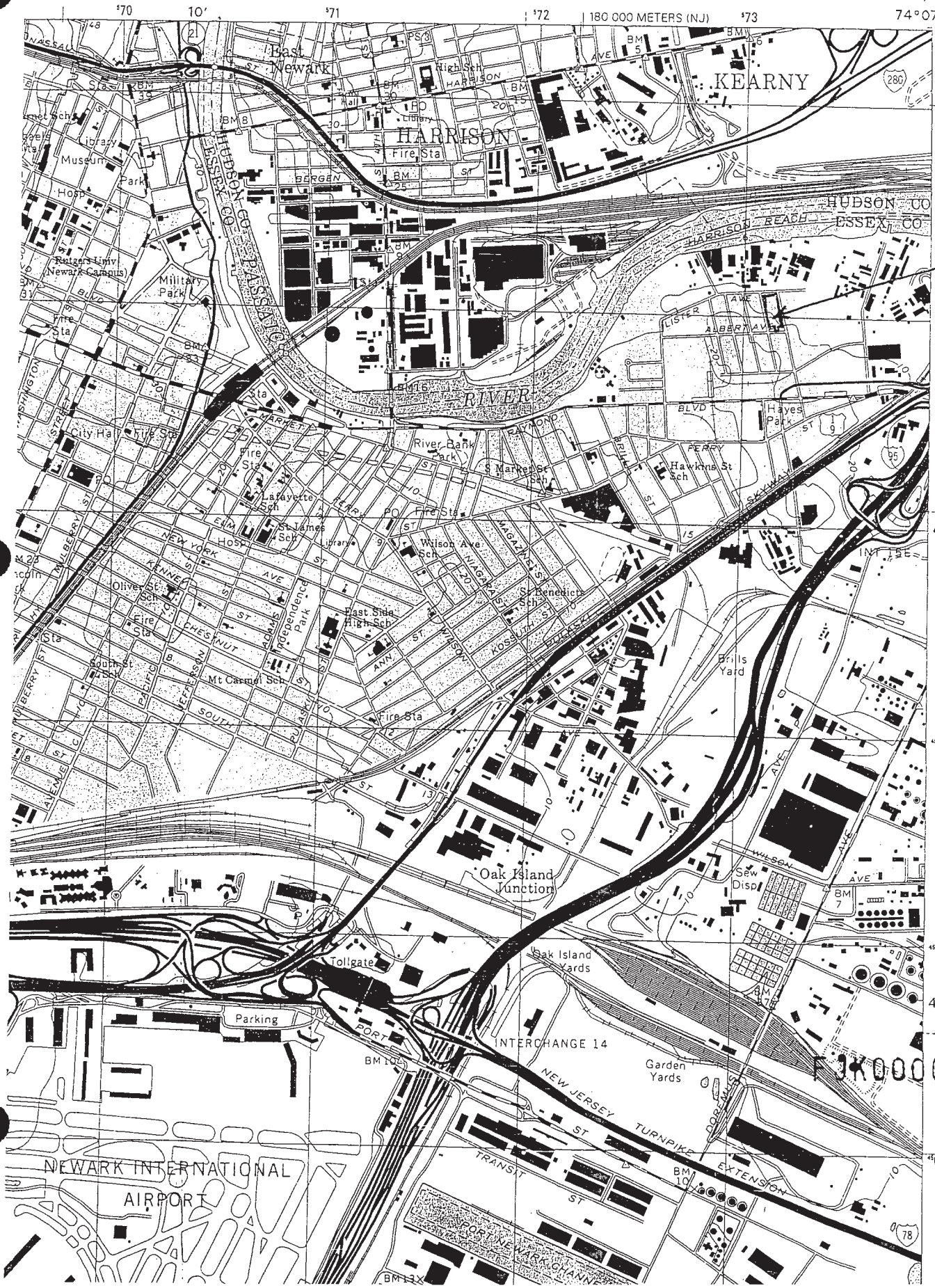
ELIZABETH QUADRANGLE
NEW JERSEY-NEW YORK
7.5-MINUTE SERIES (TOPOGRAPHIC)



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State of New Jersey

Christine Todd Whitman
Governor

Department of Environmental Protection

Robert C. Shinn, Jr.
Commissioner

Bureau of Nonpoint Pollution Control
401 East State Street
P.O. Box 029
Trenton, NJ 08625-0029
Tel. 609-633-7021 Fax: 609-984-2147

CERTIFIED MAIL
RETURN RECEIPT REQUESTED

To: FISKE BROTHERS REFINING COMPANY

1/5/00

Please find enclosed your Authorization to Discharge Stormwater under NJPDES General Permit N NJ0088315 and a copy of that permit. All co-permittees will receive original Authorizations. One of these Authorization forms is requested to be LOCATED at the regulated facility at all times and be AVAILABLE for inspection by any authorized representative of the New Jersey Department of Environmental Protection. If you have designated an agent, *it is your responsibility to notify your agent about this General Permit Authorization* and its requirements.
Enclosed are your Stormwater Pollution Prevention Plan (SPPP) Certifications (Attachments C and D) and your SPPP Guidance Manual. Below is a brief description of each:

The SPPP GUIDANCE MANUAL is a planning aid for use in developing your Stormwater Pollution Prevention Plan.

ATTACHMENT C (SPPP Preparation Certification) certifies that the Plan has been prepared in accordance with the permit. The permit specifies that this Certification must be signed and submitted to the Bureau of Nonpoint Pollution Control (Bureau) six (6) months from the date of this letter.

ATTACHMENT D (SPPP Initial Implementation and Inspection Certification) certifies that the Plan has been implemented and that you have inspected the facility for compliance with the Plan and the permit. The permit specifies that this Certification must be signed and submitted to the Bureau within eighteen (18) months from the date of this letter. (You will later receive ATTACHMENT D Annual Recertifications that must be submitted to the Bureau in subsequent years.)

Should any information about your facility, i.e., mailing address, contact person, etc. change, please contact the Bureau for a Standard Change Form. If your facility is sold, closing or moving it's location, please write the Bureau for instructions.

The Department appreciates your efforts toward accomplishing the goal of providing cleaner water for our State and looks forward to working together with you in the future. If you have any questions please contact the Bureau.

Sincerely,

Barry Chalofsky

Barry Chalofsky, P.P., Chief
Bureau of Nonpoint Pollution Control

Enclosures: (5)
Authorization to Discharge (ATD) Form
NJPDES General Permit No NJ0088315
Attachments C and D
SPPP Guidance Manual

c (w/ATD Form): NJDEP Water Compliance
and Enforcement Region Office
Facility Owner (if applicable)
BPM

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Recycled Paper

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New Jersey Department of Environmental Protection
Bureau of Nonpoint Pollution Control
Division of Water Quality
401 East State Street
P.O. Box 029
Trenton, NJ 08625-0029
Tel. 609-633-7021 or 292-0407

AUTHORIZATION TO DISCHARGE STORMWATER TO SURFACE WATER

Facility Name **FISKE BROTHERS REFINING COMPANY** SWG **A-021737**

NJ0135992

Facility Address **129 LOCKWOOD STREET**

NEWARK, NJ

SIC Code: **2992**

Type of Industrial Activity **LUBRICATING OILS AND GREA**

	Owner	Operator
Name:	**FISKE BROTHERS REFINING CO.**	**FISKE BROTHERS REFINING COMPANY**
	129 LOCKWOOD STREET	**129 LOCKWOOD STREET**
	NEWARK, NJ 07105	**NEWARK, NJ 07105**

EFFECTIVE DATE **1/5/00** EXPIRATION DATE: **1/31/02**

Your Request for Authorization under NJPDES General Permit N(**NJ0088315** has been approved by the New Jersey Department of Environmental Protection.

Barry Chalofsky, P.P., Chief
Bureau of Nonpoint Pollution Control
New Jersey Department of Environmental Protection

Date: **1/5/00**

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A-02737

NJ 0135992

State of New Jersey

Christine Todd Whitman
Governor

Department of Environmental Protection
Northern Bureau of Water Compliance and Enforcement
1259 Route 46, Building 2
Parsippany, New Jersey 07054-4191
Telephone (973) 299-7592 Fax (973) 299-7719

Robert C. Shinn, Jr.
Commissioner

IN 2/21/99

November 19, 1999

CERTIFIED MAIL
RETURN RECEIPT REQUESTED

RFA INE 12/19
CF RFA 12/20

Mr. William Chappell, Chief Lubricating Engineer
Fiske Brothers Refinery company
129 Lockwood St.
Newark, N.J. 07105

Re: Unpermitted Discharge to Surface Water (Passaic River)
Fiske Brothers Refinery Company
Newark/Essex County

Dear Mr. Chappell:

A representative of the New Jersey Department of Environmental Protection ("NJDEP" or "Department") conducted a New Jersey Pollution Discharge Elimination System (NJPDES) Compliance Evaluation and Assistance Inspection at the Fiske Brothers Refinery Company (Fiske) industrial facility at 129 Lockwood Street, Newark, New Jersey 07105 on November 15 and 16, 1999.

A Notice of Violation (NOV) was issued to Fiske for the following violation:

The facility has not submitted a Discharge to Surface Water (DSW) permit application to the Bureau of Nonpoint Pollution Control (BNPC) as required under the Industrial General Stormwater Permitting Program.

You are required to take corrective measures. Fiske's industrial activity is in the proximity of storm drains discharging to the Passaic River. Such a discharge is governed by the New Jersey Water Pollution Control Act N.J.S.A.58:10A-1 *et seq.*, and the regulations promulgated thereunder N.J.A.C.7:14A-11 *et seq.* Your facility, with SIC Code 2992, should be regulated under category (ii) of the General Stormwater Permit.

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You are therefore required to submit, an application for the General Stormwater Permit pursuant to N.J.A.C.7:14A-11.5(b) as defined under N.J.A.C.7:14A-1.2 to the Bureau of Non-Point Pollution Control, 401 East State Street, Trenton, New Jersey 08625, with a copy sent to this Bureau, within thirty (30) calendar days of receipt of this letter. Permit application information and forms may be obtained by contacting the Bureau of Nonpoint Pollution Control at (609) 633-7021.

Please direct any questions on this correspondence to this writer by phone at (973) 299-7592, or by letter through this Bureau. Thank you for your continued cooperation in the prevention and control of water pollution in New Jersey.

Very truly yours,

Theophilus Ashie
Principal Environmental Specialist
Northern Bureau of
Water Compliance and Enforcement

E29:G26

Enclosure

c: Janet Jessel, Supervisor, BNPC
City of Newark Health Department
Joseph M. Mikulka, Bureau Chief, NBWCE

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New Jersey Department of Environmental Protection
Bureau of Nonpoint Pollution Control
PO Box 029
Trenton, N.J. 08625-0029

ATTACHMENT "C"

Stormwater Pollution Prevention Plan (SPPP) Certification

Basic Industrial General Permit No. NJ0088315

(N.J.A.C. 7:14A-11 Appendix A)

SWG: A- 021737 NJPDES Permit # NJ 0135992

THIS CERTIFICATION FORM IS TO BE SUBMITTED AFTER YOU HAVE PREPARED YOUR FACILITY'S SPPP. FOR EXISTING FACILITIES, THE SPPP MUST BE PREPARED WITHIN 6 MONTHS OF THE GENERAL PERMIT AUTHORIZATION. THIS ATTACHMENT "C" CERTIFIES THAT THE SPPP HAS BEEN PREPARED IN ACCORDANCE WITH THE GENERAL PERMIT CONDITIONS.

"I certify under penalty of law that I have signed a stormwater pollution prevention plan (SPPP), and that if this plan is fully implemented, there will be no exposure, during and after storm events, of industrial materials, machinery, waste products or other source materials located at the facility, to stormwater that is discharged to surface waters and regulated under NJPDES Permit No. NJ0088315 (except for unintentional and temporary exposure because of an event beyond the reasonable control of the permittee). I further certify that if any part of this stormwater pollution prevention plan requires the consent of the owner(s) of or another operating entity for the facility, that consent has been obtained.

"I further certify that this Stormwater Pollution Prevention Plan Preparation Certification, all attached documents, and stormwater pollution prevention plan were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate this information. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering this information, the information in this Stormwater Pollution Prevention Plan Preparation Certification, all attached documents, and stormwater pollution prevention plan is, to the best of my knowledge and belief, true, accurate and complete.

"I certify that the stormwater pollution prevention plan referred to in this Stormwater Pollution Prevention Plan Preparation Certification has been signed and is being retained at the facility in accordance with part III.A of NJPDES Permit No. NJ0088315, and that the permittee intends that this stormwater pollution prevention plan will be fully implemented at the facility in accordance with the terms and conditions of that permit. I am aware that pursuant to the Water Pollution Control Act, N.J.S.A. 58:10A-1 et seq., there are significant civil and criminal penalties for making a false statement, representation, or certification in any application, record, or other document filed or required to be maintained under that Act, including fines and/or imprisonment."

Any changes to the facility data previously submitted require a Standard Change Form (SCF) to be submitted along with this Certification. This will facilitate file maintenance. Please contact the Bureau at (609) 633-7021 for copies of this form. Do not send the actual SPPP with this submission. The plan and a copy of this Certification are to remain on-site available for inspection.

WHO MUST SIGN?

FOR A CORPORATION: a "responsible corporate officer" or duly authorized representative. A "responsible corporate officer" is (i) a president, secretary, treasurer, or vice-president of the corporation in charge of a principal business function, or any other person who performs similar policy or decision-making functions for the corporation; or (ii) the manager of one or more manufacturing, production, or operating facilities employing more than 250 persons or having gross annual sales or expenditures exceeding $25 million (in second-quarter 1980 dollars), if authority to sign documents has been assigned or delegated to the manager in accordance with corporate procedures.

FOR A PARTNERSHIP OR SOLE PROPRIETORSHIP: a general partner or the proprietor, respectively, or duly authorized representative.

FOR A MUNICIPALITY, STATE, FEDERAL OR OTHER PUBLIC AGENCY: either a principal executive officer or ranking elected official, or duly authorized representative.

A "responsible corporate officer", general partner, proprietor, principal executive officer of a public agency, or ranking elected official may assign his or her signatory authority for this Certification to a duly authorized representative, which is a named person or generic position (e.g., plant manager, superintendent, plant engineer, operations manager, etc.) having overall responsibility for facility operation or the permittee's environmental matters, by submitting a letter to the Bureau of Nonpoint Pollution Control stating said authority and naming the person or position.

Whenever there are two or more permittees for the facility, all of those permittees shall jointly submit this Certification, unless permittees received authorization on different dates and this Certification is therefore due from them at different dates.

Facility Name: Fiske Brothers Refining Co. SWG: A - 021737

NJPDES # NJ 0135992

Fiske Brothers Refining Company
(print, if applicable, name of corporation, partnership, or public agency submitting this Certification)

(signature)	(date)	(print name)
Richard T. McCluskey	6/28/00	Richard T. McCluskey

If you have any questions regarding this Attachment C or any other stormwater related questions, please call a member of the Bureau of Nonpoint Pollution Control staff at (609) 633-7021.
Attachment C shall be submitted to the letterhead address on the front of this Certification.

ATTC-5/5/97

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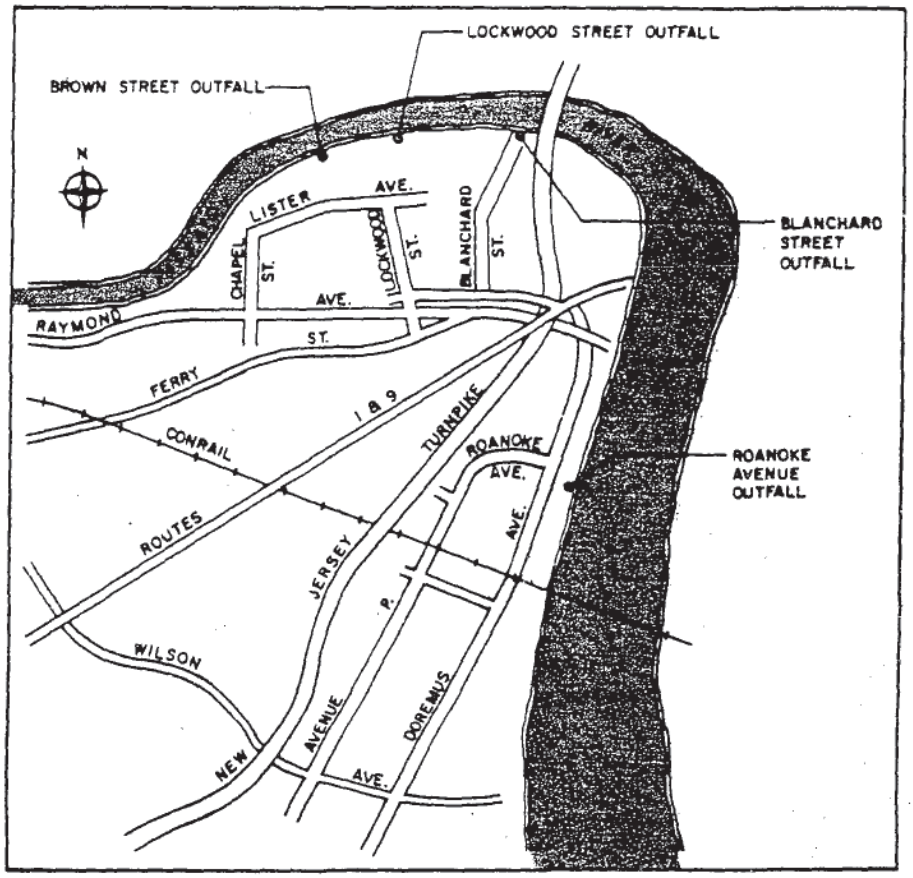
City of Newark, New Jersey

Feasibility Study

POLLUTION ABATEMENT PROGRAM



Clinton Bogert Associates
Consulting Engineers

September, 1978
Revised January, 1979

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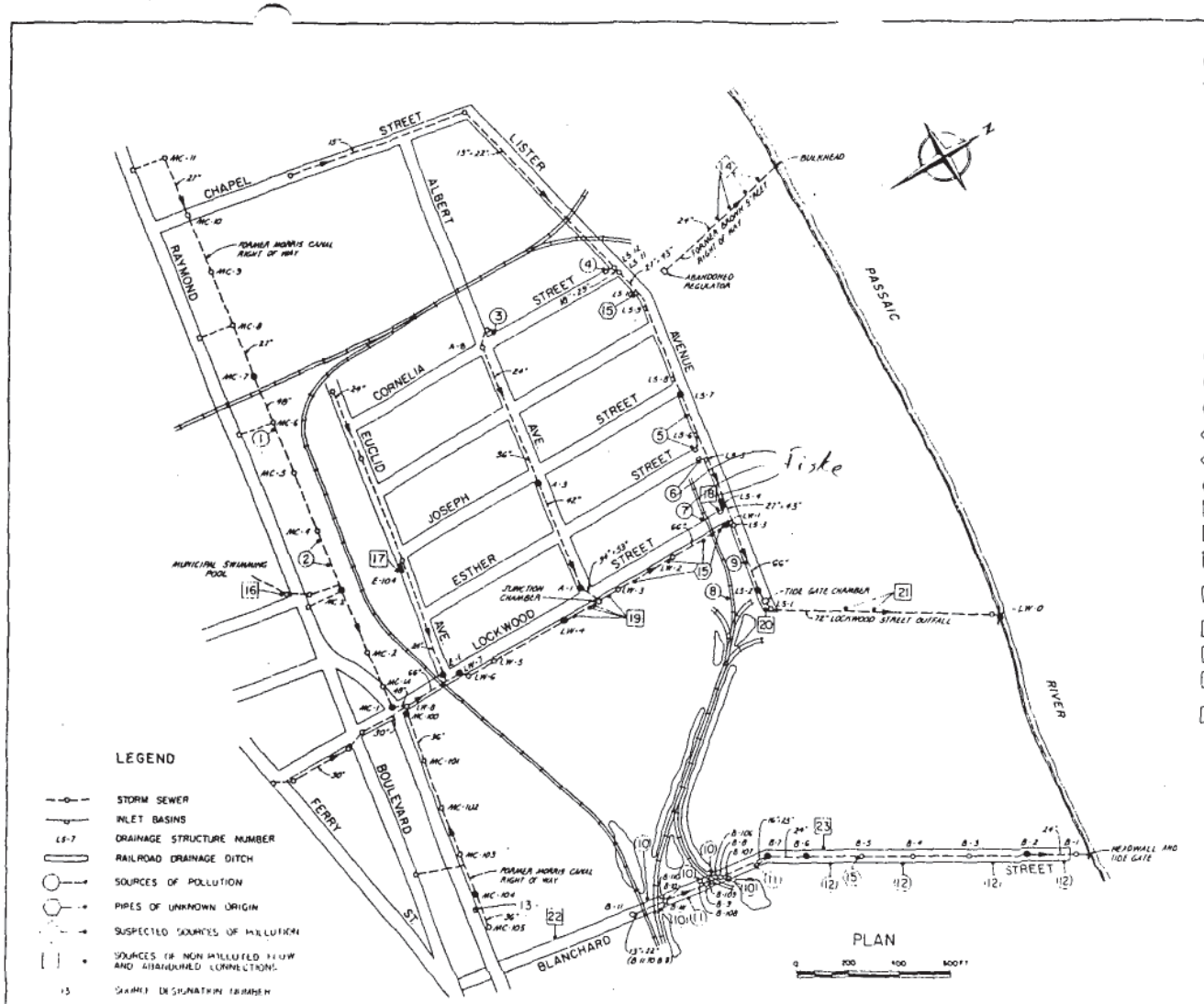

DESIGNATION NUMBER	SOURCE DESCRIPTION
1	INTERMITTENT DUMPING OF PAINT INTO INLET AT ASSOCIATED AUTO BODY AND TRUCKS INC.
2	CAR WASH DRAINS AT SUNOCO STATION CONNECTED TO STORM SEWER.
3	INTERMITTENT, LOW VOLUME DISCHARGE OF OIL AND WATER ENTERING INLET FROM CELLOMER CORP.
4	CONTINUOUS FLOW OF ORANGE VISCOUS CHEMICALS ENTERING INLET FROM CELLOMER CORP.
5	CONTINUOUS FLOW OF BLACK OILY CHEMICALS ENTERING INLETS FROM B-LINE TRUCKING COMPANY.
6	INTERMITTENT, LOW VOLUME DISCHARGE OF OIL AND WATER ENTERING INLET FROM FISKE BROTHERS REFINING COMPANY.
7	INTERMITTENT DISCHARGE OF BLACK OILY CHEMICALS ENTERING INLET FROM FISKE BROTHERS REFINING COMPANY RAILROAD SIDING.
8	CHEMICAL SPILLAGE AT ATLAS REFINERY INC. RAILROAD SIDING CONTAMINATING GROUND AND ENTERING RAILROAD DRAINAGE DITCHES DURING WET WEATHER.
9	RAILROAD DRAINS AND OIL SEPARATOR AT ATLAS REFINERY INC. CONNECTED TO STORM SEWER.
10	INTERMITTENT FLOW OF WATER AND CHEMICALS ENTERING INLETS FROM RAILROAD DRAINAGE DITCHES.
11	FREQUENT OVERFLOW OF SEWAGE FROM SANITARY MANHOLES ENTERING INLETS.
12	OCCASIONAL OVERFLOW OF SEWAGE FROM SANITARY MANHOLES ENTERING INLETS.
13	CONTINUOUS DISCHARGE FROM NEWARK BOXBOARD COMPANY.
14	INLETS AND DRAINS AT SHERWIN WILLIAMS COMPANY CONNECTED TO STORM SEWER.
15	PIPES OF UNKNOWN ORIGIN.
16	CONTINUOUS FLOW FROM MUNICIPAL SWIMMING POOL (SEASONAL).
17	CONTINUOUS FLOW OF COOLING WATER ENTERING INLET FROM REDDAWAY MANUFACTURING COMPANY.
18	INTERMITTENT DISCHARGE OF COOLING WATER ENTERING INLET FROM FISKE BROTHERS REFINING COMPANY.
19	ROOF DRAIN CONNECTIONS FROM THE MESSINGER WAREHOUSE AND TRUCKING COMPANY AND ABANDONED INLET CONNECTION.
20	ABANDONED RAILROAD DRAIN CONNECTED TO MANHOLE LS-1
21	ROOF DRAIN CONNECTIONS FROM THE BENJAMIN MOORE COMPANY.
22	CONTINUOUS, LOW VOLUME DISCHARGE OF COOLING WATER ENTERING GUTTER FROM NEWARK BOXBOARD COMPANY.
23	INTERMITTENT DISCHARGE OF GROUNDWATER ENTERING GUTTER FROM SUMP PUMP AT FAIRMOUNT CHEMICAL COMPANY.

NEWARK POLLUTION ABATEMENT FEASIBILITY STUDY

SOURCES OF POLLUTION IN STORM SEWER SYSTEMS ON BLANCHARD, LOCKWOOD AND BROWN STREETS

CLINTON BOGERT ASSOCIATES
CONSULTING ENGINEERS

PLATE 2

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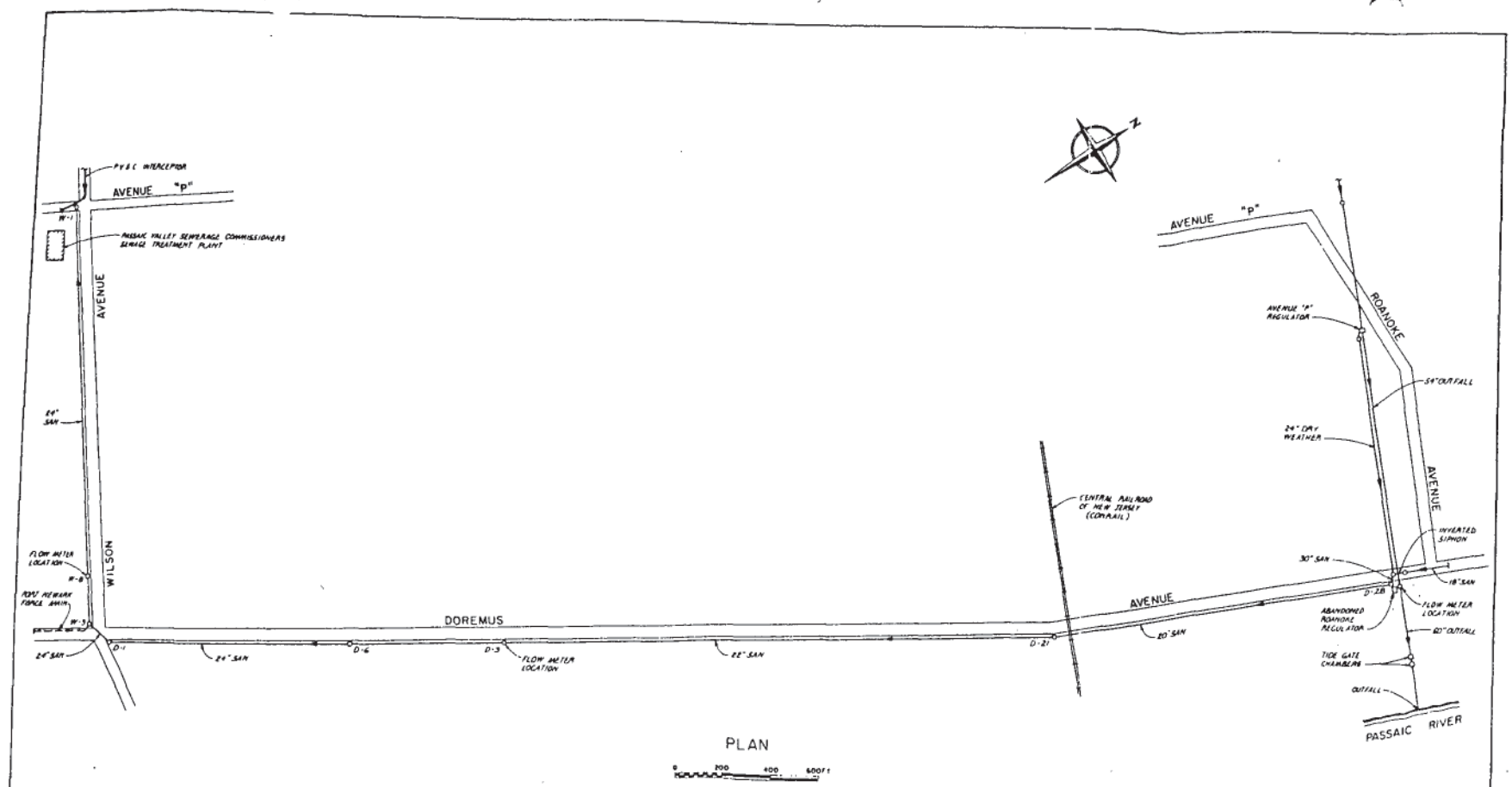

NEWARK POLLUTION ABATEMENT FEASIBILITY STUDY

SANITARY AND COMBINED SEWER CONFIGURATIONS ON ROANOKE, DOREMUS AND WILSON AVENUES

CLINTON BOGERT ASSOCIATES
CONSULTING ENGINEERS

PLATE 1

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2125 CENTER AVENUE • FORT LEE, NEW JERSEY 07024
(201) 944-1676 • CABLE: BOGERTENG FORTLEENJ

January 24, 1979

Honorable Kenneth A. Gibson, Mayor
City of Newark
City Hall
920 Broad Street
Newark, New Jersey 07102

Re: Pollution Abatement

Dear Mayor Gibson:

In accordance with our contract dated February 15, 1978, submitted herewith is our report on the sources of pollution discharging to the lower Passaic River during dry weather from the Roanoke Avenue combined sewer system and the Blanchard, Lockwood, and Brown Street storm sewer systems. Each system is discussed in a separate section which contains:

(1) A description of the existing sewers.
(2) Findings of the physical inspection.
(3) Conclusions and recommendations applicable to that system.

Appropriate additional items are included as follows:

(1) For the Roanoke Avenue combined sewer system (Section III), a hydraulic analysis is presented. Significant conclusions are:

(a) all dry weather overflows may not be eliminated by rehabilitation of the existing system alone; but either flow routing, using storage available in the existing sewers, or increased interceptor capacity is required; and,

(b) a faulty regulator results in all sewage flows discharging untreated to the Passaic River.

(2) For the Blanchard Street storm sewer (Section IV), the results of dry weather flow sampling and gauging, smoke testing and T.V. inspection are presented. Significant conclusions are the need to:

(a) replace about 1,300 feet of existing 24" storm sewer which appears in danger of collapse,

(b) improve housekeeping around industrial railroad sidings, and,

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Honorable Kenneth A. Gibson, Mayor
City of Newark
City Hall
920 Broad Street
Newark, New Jersey 07102

CONSULTING ENGINEERS

We would be pleased to meet with you to review any matters contained herein. We wish to express our appreciation of the assistance given us by members of your staff, particularly Mr. Robert Benz, in carrying forward this work.

Very truly yours,

CLINTON BOGERT ASSOCIATES

Herbert L. Kaufman

Herbert L. Kaufman
P.E., N.J. Lic. No. 13647

HLK:mmb
Enclosure

Table of Contents

Page No.

Letter of Transmittal

I. Introduction..... 1

II. Scope of Work..... 3

III. Roanoke, Doremus, and Wilson Avenue Sewers..... 4
- A. Existing Sewers..... 4
- B. Physical Inspection Findings..... 5
  - 1. Avenue "P" Regulator and Roanoke Outfall Sewer..... 5
  - 2. Roanoke Avenue Sanitary Sewer..... 6
  - 3. Doremus Avenue Interceptor..... 6
  - 4. Wilson Avenue Interceptor..... 7
  - 5. Roanoke Avenue Regulator..... 7
- C. Hydraulic Analysis..... 8
  - 1. Flow Measurement Methods..... 8
  - 2. Observed Flow Rates..... 8
  - 3. Diversion of Roanoke Flow to PVSC Interceptor.....10
  - 4. Diversion Works.....14
- D. Conclusions and Recommendations.....17

IV. Blanchard Street.....20
- A. Physical Inspection Findings.....20
- B. Dry Weather Sampling and Flow Rates.....23
- C. Smoke Testing.....24
- D. Television Inspection.....25
- E. Conclusions and Recommendations.....26

V. Lockwood Street Outfall.....28
- A. Physical Inspection Findings.....28
  - 1. Lister Avenue Sewer.....28
  - 2. Morris Canal Sewers.....29
  - 3. Euclid Avenue Sewer.....29
  - 4. Albert Avenue Sewer.....30
  - 5. Lockwood Street Sewer.....30
  - 6. Lister Avenue Tide Gate.....30
  - 7. Lockwood Street Outfall.....31
- B. Dry Weather Flow Sampling and Flow Monitoring.....32
- C. Smoke Testing.....34
- D. Television Inspection.....35
- E. Conclusions and Recommendations.....38

(continued)

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Table of Contents
(continued)

Page No.

VI. Brown Street.....41
A. Configuration.....41
B. Physical Inspection Findings.....42
C. Dry Weather Effluent Sampling.....44
D. Conclusions and Recommendations.....45

VII. General Recommendations.....46
VIII. Appendices Following Text
A. Analytical Test Results
B. Letter From Robinson Pipe Cleaning Company

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ILLUSTRATIONS
(Following Appendices)

A. Plate 1 - Sanitary and Combined Sewer Configurations on Roanoke, Doremus and Wilson Avenues

B. Plate 2 - Sources of Pollution in Storm Sewer Systems on Blanchard, Lockwood and Brown Streets

C. Plate 3 - Diurnal Sewage Flow Patterns, Roanoke Avenue Outfall Sewer

D. Plate 4 - Diurnal Sewage Flow Patterns, Roanoke Avenue Outfall Sewer

E. Plate 5 - Diurnal Sewage Flow Patterns, Doremus Avenue Interceptor

F. Plate 6 - Diurnal Sewage Flow Patterns, Doremus Avenue Interceptor

G. Plate 7 - Diurnal Sewage Flow Patterns, Wilson Avenue Interceptor

H. Plate 8 - Diurnal Sewage Flow Patterns, Wilson Avenue Interceptor

I. Plate 9 - Flow Rates at the Lister Avenue Tide Gate Chamber

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IV. Blanchard Street

A. Physical Inspection Findings

Blanchard Street is served by separate storm and sanitary sewers. The 24-inch storm sewer (see Plate 2), constructed in 1917, discharges to the Passaic River. In 1970, the storm sewer was extended and the sanitary sewer was rebuilt. The sanitary sewer connects to a trunk sewer in Raymond Boulevard. The sanitary sewer is clogged by grease, tallow, paper and black oily waste. Several sanitary manholes were observed to surcharge and overflow into the street. These overflows usually occurred between 11:00 a.m. and 3:00 p.m. on weekdays. The frequency of overflow varies depending on industrial discharge rates. It does not appear to be related to rainfall events. Overflows were observed at least once a week and were noted on ten consecutive weekdays in April 1978. Intermittent overflows may have occurred during the last few years. These sanitary overflows are a major source of pollutants in the Blanchard Street storm sewer. City forces had been cleaning the Blanchard Street sanitary sewer when backups and overflows were reported. Equipment breakdowns and manpower shortages caused a suspension of cleaning operations in 1978.

Prior to cleaning, the storm sewer contained between 1.0 and 1.5 feet of primarily granular sediment mixed with black oil. The oil, which comes from the overflowing sanitary sewer, coats the inside of the pipes and manholes. Several inlets were filled with debris and sediment. The tide gate is mounted on a headwall on the river bank. The gate was being held open by sediment and debris during the first field inspection. The gate appeared to be fully operational after City personnel removed the sediment in April 1978. In subsequent inspections floating debris had lodged again under the gate indicating the need for frequent maintenance. A continuous waste

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discharge was noted. Dry weather flow rates, varying between 10,000 gpd and 100,000 gpd were estimated using depth measurements. The source of this flow appears to be groundwater. Dry weather flow was observed above manhole B-7 only when the sanitary sewer was overflowing or the drainage ditches along the Conrail industrial spurs were flooded.

Inlets B-106, B-107, B-108, B-109, B-110 and B-111 receive flow from the railroad spurs and sidings. The ditches along these tracks drain wet lands which were observed to contribute continuous flow for up to two weeks during wet periods. Chemical spillage was observed on the tracks and in the adjacent ditches. The source of the chemicals appears to be leakage from railroad tank cars. No leaking cars were observed, however. Major spills were noted from the Atlas Refinery Inc. railroad siding. Rain washes some of this spillage through the drainage ditches and railroad ballast into the Blanchard Street storm inlets. Since no leaking cars were found on the Conrail spurs, it is not possible to link other specific industries to the spillage. Valves may not always be closed when the cars are unloaded and chemicals may drip out while the cars are standing on the spurs in a totally random pattern. The Fairmount Chemical Company, the Benjamin Moore Company, Atlas Refinery Inc, and the Fiske Brothers Refining Company all receive tank cars through this railroad spur.

Four pipes were observed along the railroad tracks west of Blanchard Street. Two of the pipes drain the Delissa Pallet storage area and are not sources of pollution. The other two are filled with earth and appear to be old railroad culverts. Railroad drainage ditches are connected to inlets B-106 and B-108 by pipes. The pipe at B-108 is clogged with earth; this causes partial flooding of the siding during rainfall events. Leaks were found in the walls and under the frames of inlet B-106 and B-107 when the ground was saturated. The sanitary sewer is adjacent to inlet B-107 at an elevation lower than the leaks observed. The inlet was inspected in dry

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V. Lockwood Street Outfall

A. Physical Inspection Findings

The storm sewers in Lockwood Street, Lister Avenue, Chapel Street, Albert Avenue, Euclid Avenue and the Morris Canal Right-of-Way all drain through the Lockwood Street outfall (see Plate 2). Drainage from parts of Raymond Boulevard, Ferry Street, and the Pulaski Skyway ramp are also connected to the Lockwood Street system. Separate sanitary sewers serve the entire area. All storm manholes and inlets in the study area were inspected. The limits of tidal flow were identified and all sources of dry weather flow were isolated. Chemical spills at industrial facilities were noted. The Morris Canal storm sewer west of Lockwood Street (LW-8 to MC-11) was lamped.

(1) Lister Avenue Sewer

The manholes, inlets and pipes on Lister Avenue were coated with a black oily material. Sediment depth varied between 0.5 and 1.5 feet. The source of the oil was spillage at the B-Line Trucking Company. Tank trucks are allowed to drain while parked at this facility. Black oily chemicals flow into inlets on Lister Avenue and Esther Street. The flow into Esther Street is continuous and the curb has been broken out to facilitate it.

A continuous flow of viscous orange chemicals was observed entering an inlet on Cornelia Street. This material came from leaking drums stored on the Cellomer Corporation property. These chemicals were entering the Lister Avenue storm sewer. Intermittent spillage of black oily chemicals was noted at the Fiske Brothers Refining Company railroad siding and a very small volume of water and oil from that industry was being discharged into Esther Street. Both flows

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were entering the Lister Avenue storm sewer. A cooling water discharge pipe from Fiske Borthers was found at the inlet on the southwest corner of Lockwood Street and Lister Avenue. A 2-inch ± connection was found entering inlet LS-10. Because of its diameter, it is improbable that this line contains wastes. It was not flowing when inspected. The only building near LS-10 is occupied by the State Produce Company. No dry weather flow was observed upstream of manhole LS-12 and no sources of pollution are suspected above that point.

(2) Morris Canal Sewers

Continuous flow was observed in the Morris Canal storm sewers east and west of Lockwood Street. The flow in the easterly line (LW-8 to MC-105) was traced to the Newark Boxboard Company. This flow was estimated at 0.16 mgd using depth measurements. The municipal swimming pool on Waydell Street was discharging an estimated 0.07 mgd into the westerly line upstream of manhole MC3. The car wash drains at the Sunoco Station on Raymond Boulevard were found to be connected to the storm sewer between manholes MC3 and MC-4. Personnel at Associated Auto Body and Trucks Inc. were observed dumping paint into the storm sewer between manholes MC-6 and MC-7. Manhole MC-7 is the limit of tidal influence and no dry weather flow was observed upstream of that point. A partial blockage was found in the invert of manhole MC-2. Sediment varying in depth between 0.5 and 1.0 feet was noted between manholes LW-8 and MC-7.

(3) Euclid Avenue Sewer

The flow in the Euclid Avenue storm sewer, estimated at 0.02 mgd, was traced to the Reddaway Manufacturing Company's cooling water discharge at inlet E-104.

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(4) Albert Avenue Sewer

Tidal flow was observed in the Albert Avenue storm sewer up to manhole A-3. A minor, intermittent flow of water and oil from Cellomer enters the Cornelia Street gutter and flows to the Albert Avenue storm sewer. However, no dry weather flow was actually observed upstream of manhole A-3.

(5) Lockwood Street Sewer

No dry weather flow was observed in the Lockwood Street storm sewer upstream of manhole LW-8. There is no indication of pollutant sources above that point. The cross-connections shown on the sewer plans were inspected and found to be sealed. A railroad drain on the south side of the Messinger Trucking and Warehouse Corporation building appeared to be connected to the Lockwood Street sanitary sewer. Major spillage of chemicals was observed at the Atlas Refinery Inc. railroad siding. The eastern portion of this siding drains into railroad drainage ditches that are connected to the Blanchard Street storm sewer system. The discharges from Newark Boxboard, the municipal swimming pool, and Reddaway Manufacturing produce a base discharge of approximately 0.25 mgd.

(6) Lister Avenue Tide Gate

There was no evidence of chemical attack or deterioration of the concrete chamber. Sediment in the invert of the chamber prevents the Lister Avenue tide gate from closing completely. The gate allows inflow during the rising tide. Assuming a five foot tidal range and an open tide gate, approximately 270,000 gallons of river water enters with each incoming tide, mixes with pollutants being discharged into the system and flows back into the river as the tide falls. A typical diurnal flow pattern at the tide gate is shown on Plate 9. If

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the tide gates were to close completely, the discharge from the system of any polluted flow would be restricted to a relatively short period around low tide.

(7) Lockwood Street Outfall

An abandoned railroad drain was found connected to manhole LS-1. The last 25 feet of the 72-inch outfall was exposed and showed evidence of chemical attack. Portion of the crown had completely deteriorated. The headwall was not deteriorated and there was no evidence of chemical attack below the spring line of the pipe.

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B. Dry Weather Flow Sampling and Flow Montoring

Sources of dry weather flow and limits of tidal influence were noted during the physical survey. Those sewers in which flow was observed were subdivided for sampling. The first set of samples was obtained on May 2, 1978. The second set was taken on June 14, 1978. The laboratory analysis of these samples is shown in Appendix A. Both sets of samples show high levels of pollution on Lockwood Street, Lister Avenue, Albert Avenue, and the easterly portion of the Morris Canal storm sewer. The samples in the Euclid Avenue sewer fell within water quality standards. Because of tidal action, it was not possible to confirm that all high pollutant readings were caused by discharges near the respective sampling points. A discharge of pollutants anywhere in the system within the tidal range could be mixed and carried to distant sampling points. Samples were obtained at the following locations.

LW-0	Lockwood Street Outfall at the Passaic River
LS-2	Lister Avenue upstream of the tide gate chamber
LS-4	Lister Avenue upstream of Lockwood Street
LS-7	Lister Avenue at Joseph Street
LW-1	Lockwood Street upstream of Lister Avenue
LW-4	Lockwood Street upstream of Albert Avenue
LW-7	Lockwood Street downstream of the Morris Canal
A-1	Albert Avenue at Lockwood Street
A-3	Albert Avenue at Joseph Street
E-1	Euclid Avenue at Lockwood Street
E-104	Euclid Avenue (cooling water connection at inlet)
MC-1	Morris Canal at Lockwood Street (west side)
MC-3	Morris Canal 500 ft. west of Lockwood Street
MC-7	Morris Canal 1400 ft. west of Lockwood Street
MC-100	Morris Canal at Lockwood Street (east side)
MC-104	Morris Canal 800 ft. east of Lockwood Street

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Euclid Avenue was eliminated from further study because of sampling results. The cooling water discharged at Reddaway Manufacturing was sampled at inlet E-104. The Morris Canal storm sewer west of Lockwood Street (LW-8 to MC-11) was eliminated on the basis of physical inspection, lamping and sampling. The intermittent sources of pollution at the Sunoco Car Wash and Associated Auto Body have been identified. The high levels of pollutants detected at manhole MC-1 in the May 2 sampling is attributed to these sources. Sediment downstream caused flow to pool at manhole MC-7 and remain there as the tide went out. Pollutants from downstream appear to have been carried into that manhole by the tide causing the contamination detected in the MC-7 sample on June 14. The 72-inch Lockwood Street Outfall was not televised because there was no evidence of pollutant sources in the line. The Benjamin Moore Company is the only industry adjacent to the outfall. Maps provided by the City of Newark show the roof drains from one building connected to the outfall. The Benjamin Moore laboratory is located in that building but there are no chemical process facilities. The plant engineer indicates that all other surface and roof drainage is pumped directly into the Passaic River. All other storm sewers in which flow was observed were scheduled for television inspection.

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C. Smoke Testing

The storm and sanitary sewers on Lockwood Street, Lister Avenue, Albert Avenue, and the easterly portion of the Morris Canal right-of-way were smoke tested. No problems were observed when the storm sewers were tested. The pipe connecting to manhole LS-1 was found to terminate in an embankment along the nearby railroad spur. This pipe may have functioned as a railroad drain before the track elevation was lowered; it serves no purpose now. The effectiveness of the smoke testing may have been reduced in the larger storm sewers. Blowers were used to force smoke into the pipes under pressure. The volume of the Lockwood Street storm sewer (66-inch) and the number of inlet openings reduced the pressure behind the smoke and may have prevented it from reaching remote connections.

Three inflow sources were detected when the sanitary sewer was smoke tested. All observed roof and area drains at Atlas Refinery Inc. were connected to the sanitary sewer. These drains are a major source of inflow and should be reconnected to the storm sewer. A cross connection was found at the intersection of Joseph Street and Lister Avenue. The storm inlet at the southwest corner of the intersection is connected to the adjacent sanitary manhole. The sanitary sewer elevation is lower than the inlet invert. Sanitary sewage could enter the storm sewer if a blockage occurred. Smoke also escaped from the site of a demolished building at the southwest corner of the Lockwood Street-Albert Avenue intersection. It appears that the building connection was not sealed. No smoke was observed escaping from plumbing vents. It is probable that all connections to the storm and sanitary sewer have line traps which would prevent the passage of smoke.

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D. Television Inspection

The following lengths of storm sewer were inspected using closed circuit television.

Lister Avenue	LS-1 to LS-3
Lister Avenue	LS-4 to LS-11
Lockwood Street	LS-3 to LW-8
Albert Avenue	A-1 to A-3
Morris Canal	LW-8 to MC-104

The inspection of the Lister Avenue line revealed an oil separator at Atlas Refinery Inc. connected to the 66-inch storm sewer approximately 120 ft. upstream of manhole LS-2. This connection is believed to be a major source of pollutants. There is a railroad siding drainage system connected to this oil separator. Tank cars containing chemicals are unloaded at the siding daily and spills are frequent. Much of the spillage is believed to pass through the separator and enter the Lister Avenue storm sewer. No other sources of flow were found during the television inspection of Lister Avenue. Significant settlement was noted between LS-4 and LS-11. The television camera went under water frequently and came out at inlets and manholes. Most lengths of pipe had settled more than 15 inches. Based upon the portions of line that could be seen and the relatively recent date of construction (1970), no illegal connections are suspected. The pollution in the line results from spillage at B-Line Trucking and Cellomer, as well as pollutants washed in by the tide. The flow from the Atlas oil separator, immediately downstream, could cause high pollutant concentrations in the Lister Avenue storm sewer.

Several connections were found in the Lockwood Street storm sewer between manholes LW-4 and LW-3. Pipes were located 34 ft., 92 ft., 104 ft., 133 ft., 143 ft. and 200 ft. downstream of manhole

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LW-4. The pipes at 92 ft. and 104 ft. are shown on old plans as connections to inlets at the intersection. These inlets were connected to the new Albert Avenue storm sewer in 1970. The pipes at 34 ft., 143 ft. and 200 ft. appear to be roof or floor drain connections to the Messinger Trucking and Warehouse Corporation building. There are no wastes eminating from this facility. The connection at 143 ft. may also be a concrete spall; the pipe could not be seen clearly. The connection at 133 ft. comes from the west side of the street in the vicinity of the Albert Avenue intersection. This pipe is not shown on the storm sewer plans, but it may be an abandoned inlet connection. These connections were not flowing when the pipe was televised.

A connection of unknown origin was observed in the Lockwood Avenue storm sewer 53 ft. downstream of manhole LW-3. Inlet connections were also observed 170 ft. and 183 ft. downstream of LW-3. The pipe at 53 ft. connected on the east side and may be from Atlas Refinery Inc. A pipe crossing broken into the crown of the 66-inch line and running perpendicular to it was noted at 201 ft. These pipes were not flowing when televised. A 2-inch ± connection located approximately 10 ft. upstream of manhole LW-2 has been observed by City personnel. This connection comes from the east side of the street and was discharging flow when observed. This connection appeared to originate at Atlas Refinery Inc.

Three connections were noted between manholes LW-2 and LW-1 in the Lockwood street storm sewer. Pipes were observed 149 ft., 159 ft. and 215 ft. downstream of manhole LW-2. The connection at 159 ft. is believed to be from an inlet that was removed during construction of a new building at Atlas Refinery Inc. The connection at 149 ft. appeared to be a large pipe 24-inch ± surrounded by roots. It could also be a connection crossing the 66-inch line. The connection at 215 ft. was from the westerly side of the street. It

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could not be seen clearly and may be a concrete spall. No flow was observed from any of these pipes.

No improper connections were found in the Albert Avenue storm sewer or in the Morris Canal line between manholes LW-8 and MC-104. The pollutants detected in the Albert Avenue line appear to have been carried in by tidal action. Two sources of pollutants are suspected in the Morris Canal sewer east of Lockwood Street. The limit of tidal influence is downstream of manhole MC-104. Yet, pollutants were detected in the sample obtained at that manhole. Newark Boxboard discharges the flow sampled at MC-104 and that flow is polluted. However, the concentration of pollutants downstream, at manhole MC-100, is three times greater than at MC-104. Some pollutants may settle into the sediment during the high tide periods. Flow from Newark Boxboard may flush some of this material and carry it into the Lockwood Street storm sewer.

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E. Conclusions and Recommendations

1. Several improvements are required at Atlas Refinery Inc. The firm should be required to connect its oil separator to the sanitary sewer rather than to the storm sewer. The spillage at the railroad siding should be cleaned up and procedures developed to prevent future spills. Roof and area drains should be connected to the storm sewer rather than to the sanitary sewer as at present. The plant has been expanded several times over the years and complete plans of the piping systems are not available. The Lockwood Street storm sewer is located under the sidewalk in front of the Atlas plant. Connections could have been made without excavation in the street. Connections of unknown origin between manholes LW-3 and LW-1 appear to lead to drains in the Atlas plant complex. Fiske Brothers Refining Company, the industry across the street, is a less likely point of origin since they would have had to excavate the street and cross the sanitary sewer to make connections to the storm sewer. Atlas should be required to evaluate its piping and identify connections to the storm sewer. Any sanitary facilities, chemical processes, or drains that accept polluted flow should be reconnected to the sanitary sewer. Authorized discharges to the storm sewer should be made through a manhole or chamber to allow monitoring by the City.

2. Fiske Brothers Refining Company should be required to cease discharging oil and water into Esther Street and to prevent spills at their railroad siding. Fiske Brothers should be required to identify existing connections to the storm sewer. Connections that accept pollutants should be reconnected to the sanitary sewer. Connections that carry

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nonpolluted flow should be made through a chamber to facilitate monitoring by the City.

3. After Atlas and Fiske Brothers have evaluated their piping and reconnected lines as necessary, the remaining connections of unknown origin between LW-3 and LW-1 should be sealed as a precaution. Initially, temporary plugs should be installed. If the lines are active, a backup will be reported. If no problems occur after one month, the connections should be permanently sealed. The connections observed between LW-4 and LW-3 are believed to be roof drains from the Messinger Warehouse and abandoned inlet connections. They should not be sealed.

4. B-Line Trucking Company should be required to cease discharging black oily waste into Lister Avenue and Esther Street. The spillage that has already occurred should be cleaned up. This flow is believed to be the major source of black oil in the system.

5. Newark Boxboard Company should be required to evaluate its internal piping. Only nonpolluted flow should be discharged into the Morris Canal storm sewer. Polluted flow should be discharged into the Blanchard Street sanitary sewer after that line is cleaned. The City should monitor the flow at manhole MC-104 to assure compliance.

6. Associated Auto Body and Trucks, Inc. should be prohibited from dumping paint or other wastes into the Morris Canal storm sewer.

7. The car wash drains at the Sunoco Station should be reconnected to the sanitary sewer. Suitable grit removal and oil separation facilities should be provided.

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8. Cellomer Corporation should be required to clean up the spillage on their property and cease discharging oil into Cornelia Street. It should be noted that Cellomer was informed of this problem and cleanup operations were underway.

9. Sources of inflow should be eliminated. The cross connection at the intersection of Joseph Street and Lister Avenue should be sealed. The railroad siding drain on the south side of the Messinger Warehouse should be disconnected from the sanitary sewer. The Atlas roof and area drains have already been discussed.

10. The Lister Avenue storm sewer, west of Lockwood Street should be cleaned of debris, sediment and oily wastes.

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FISKE BROTHERS REFINING CO

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Payment Summary
Payment Details
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Overview

BUSINESS SUMMARY

About Business Summa

FISKE BROTHERS REFINING CO
129 Lockwood St
Newark, NJ 07105

D&B D-U-N-S Number: 00-215-3070

Rating Change

This is a **headquarters** location. Branch(es) or division(s) exist.

Web site:	www.lubriplate.com
Telephone:	973 589-9150
Fax:	973 589-4432
Chief executive:	RICHARD T MC CLUSKEY, CHB-PRES
Year started:	1870
Management control:	1953
Employs:	109 (34 here)
Financial statement date:	DEC 31 2004
Sales F:	$24,264,538
Net worth F:	$9,630,277
History:	CLEAR
Financial condition:	STRONG

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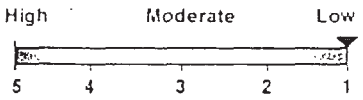
Payment Trends Profile
Payment trends and industry benchmarks
Jump to Payment Trends

Credit Score Class: 1

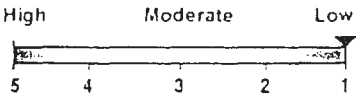
Low risk of severe payment delinquency over next 12 months



• Jump to: Credit Score Class Summary

Financial Stress Class: 1

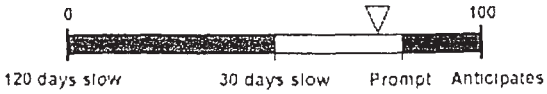
Low risk of severe financial stress over the next 12 months



• Jump to: Financial Stress Summary

12-Month D&B PAYDEX®: 76

When weighted by dollar amount, payments to suppliers average 6 days beyond terms.



• Jump to: PAYDEX

FJK000036

D&B Rating: 3A1

932110051

Understanding Financial Statements
Understanding Key Business Ratios
Submit a Credit Reference on this Business

SIC: 2992
• Jump to: SIC & NAICS Section

Line of business: Mfg greases & blends lubricating oils

Formerly 1R2

Financial strength: 3A is **$1 to 10 million.**

Composite credit appraisal: 1 is **high.**

• Jump to: Credit Capacity Summary

Corporate Family

View the interactive global family tree for this business - now included as part of your Preferred Pricing subscription.

This business is at the top of the corporate family. Click the link below to view subsidiaries and branches.

View more family members

D&B EXCLUSIVE

EXECUTIVE SUMMARY

Back to Top

About Executive Summa

The **Financial Stress Class of 1** for this company shows that during the previous year, firms with this classification had a failure rate of 0.49% (49 per 10,000), which is lower than the national average.

The **Credit Score class of 1** for this company shows that during the previous year, 2.3% of the firms with this classification paid one or more bills severely delinquent, which is lower than the national average.

Financial information from a fiscal statement dated 12/31/04 is included.

Predictive Scores	This Business	Comments
Financial Stress Class	1	Failure Rate lower than the national average
Financial Stress Score	1526	Highest Risk: 1,001; Lowest Risk: 1,850
Credit Score Class	1	Probability of Severely Delinquent Payment is lower than the national average

Other Key Indicators		
Current PAYDEX	6 days beyond terms	Pays more promptly than the average for its industry of 8 days beyond terms
Industry Median	8 days beyond terms	
Present management control	52 years	
UCC Filings	UCC filing(s) are reported for this business	
Public Filings	No record of open Suit(s), Lien(s), or Judgment(s) in the D&B database	
History	Is clear	
Special Events	Are reported for this business	

CREDIT CAPACITY SUMMARY

Back to Top

About Credit Capacity Summa

D&B Rating: **3A1**

Financial strength: 3A indicates **$1 to 10 million.**

FJK000037

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Composite credit appraisal: 1 is **high**.

This credit rating was assigned because of D&B's assessment of the company's financial ratios and its cash flow. For more information, see the **D&B Rating Key**.

Sales:	$24,264,538	**Payment Activity:** (based on 74 experiences)	
# of Employees Total:	109 (34 here)		
As of 12/31/04		**Average High Credit:**	$8,670
Worth:	$9,630,277	**Highest Credit:**	$100,000
Working Capital:	$6,034,944	**Total Highest Credit:**	$622,450

Note: The Worth amount in this section may have been adjusted by D&B to reflect typical deductions, such as certain intangible assets.

SPECIAL EVENTS About Special Eve
Back to Top

11/15/2004
A Rating change has occurred on this company.

Jump to:

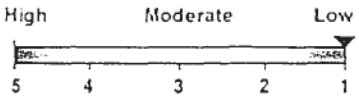
Overview | Payments | Public Filings | History & Operations | Banking & Finance

Scores D&B EXCLUSIVE

FINANCIAL STRESS SUMMARY About Financial Stress Summa
Back to Top

The Financial Stress Summary Model predicts the likelihood of a firm ceasing business without paying all creditors in full, or reorganization or obtaining relief from creditors under state/federal law over the next 12 months. Scores were calculated using a statistically valid model derived from D&B's extensive data files.

Financial Stress Class: **1**



Low risk of severe financial stress, such as a bankruptcy, over the next 12 months.

Incidence of Financial Stress

Among Businesses with this Classification:	0.49% (49 per 10,000)
National Average	1.40% (140 per 10,000)

Financial Stress National Percentile: **93** (Highest Risk: 1; Lowest Risk: 100)

Financial Stress Score: **1526** (Highest Risk: 1,001; Lowest Risk: 1,850)

The Financial Stress Class of this business is based on the following factors: FJK000038

- No record of open suit(s), lien(s), or judgement(s) in the D&B files.
- Control age or date entered in D&B files indicates lower risk.
- Payment experiences exist for this firm which are greater than 60 days past due.
- 9% of trade experiences indicate slow payment(s) are present.
- Business owns facilities.

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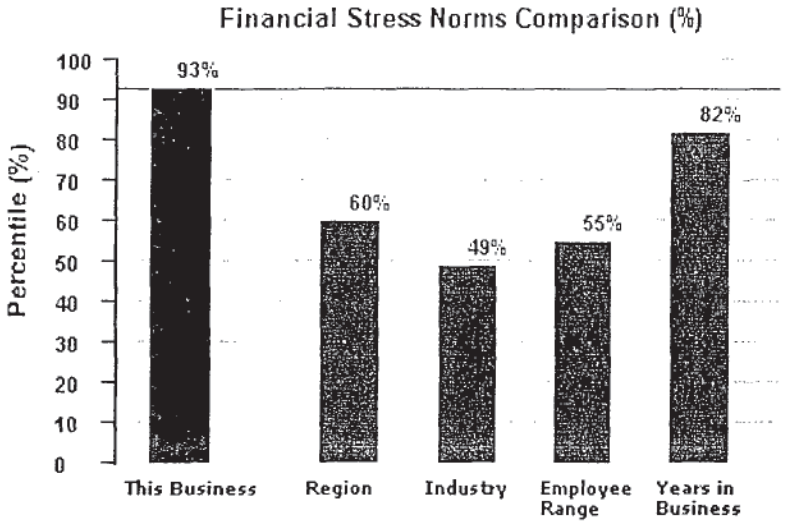
Notes:

- The Financial Stress Class indicates that this firm shares some of the same business and financial characteristics of other companies with this classification. It does not mean the firm will necessarily experience financial stress.
- The Incidence of Financial Stress shows the percentage of firms in a given Class that discontinued operation over the past year with loss to creditors. The Incidence of Financial Stress - National Average represents the national failure rate and is provided for comparative purposes.
- The Financial Stress National Percentile reflects the relative ranking of a company among all scorable companies in D&B's file.
- The Financial Stress Score offers a more precise measure of the level of risk than the Class and Percentile. I is especially helpful to customers using a scorecard approach to determining overall business performance.
- All Financial Stress Class, Percentile, Score and Incidence statistics are based on 2002.



Region=MIDDLE ATLANTIC
Industry=MANUFACTURING
Employee Range=100-499
Years in Business=26+

Norms	National %
This Business	93
Region: **MIDDLE ATLANTIC**	60
Industry: **MANUFACTURING**	49
Employee Range: **100-499**	55
Years in Business: **26+**	82

This business has a Financial Stress Percentile that shows:

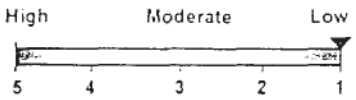
- Lower risk than other companies in the same region.
- Lower risk than other companies in the same industry.
- Lower risk than other companies in the same employee size range.
- Lower risk than other companies with a comparable number of years in business.

CREDIT SCORE CLASS SUMMARY (?) About Credit Score Class Summ

Back to Top

The Credit Score class predicts the likelihood of a firm paying in a severely delinquent manner (90+ Days Past Terms) over the next twelve months. It was calculated using statistically valid models and the most recent paymer information in D&B's files.

Credit Score Class: **1**



Low risk of severe payment delinquency over next 12 months.

Incidence of Delinquent Payment

FJK000039

Among Companies with this Classification: 2.30%

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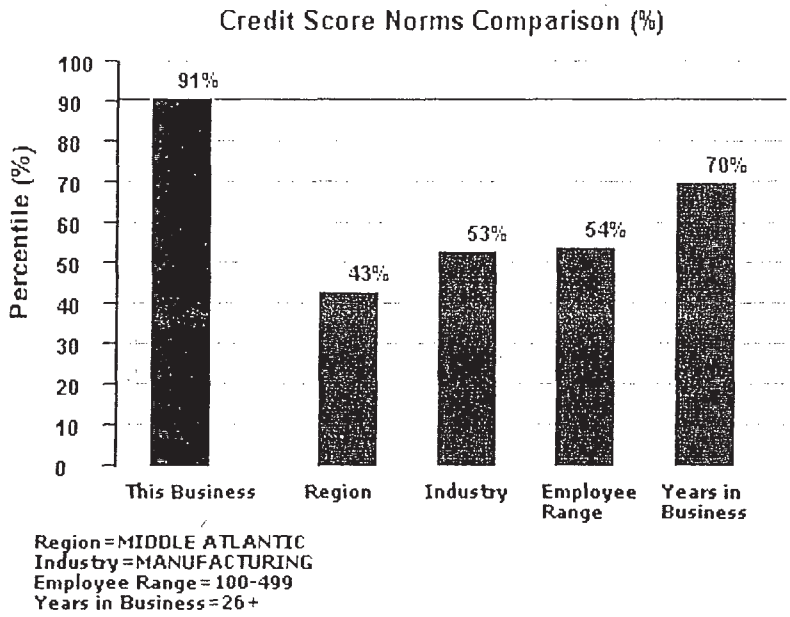
Credit Score Percentile: 91 (Highest Risk: 1; Lowest Risk: 100)

The Credit Score Class of this business is based on the following factors:

- Control age or date entered in D&B files indicates lower risk.
- No record of open suit(s), lien(s), or judgments(s) in the D&B files.
- D&B files indicate a net worth of $9,630,277.
- Quick ratio is 1.1.

Notes:

- The Incidence of Delinquent Payment is the percentage of companies with this classification that were reported 90 days past due or more by creditors. The calculation of this value is based on an inquiry weighte sample.
- The Percentile ranks this firm relative to other businesses. For example, a firm in the 80th percentile has a lower risk of paying in a severely delinquent manner than 79% of all scorable companies in D&B's files.



Norms	National %
This Business	91
Region: **MIDDLE ATLANTIC**	43
Industry: **MANUFACTURING**	53
Employee Range: **100-499**	54
Years in Business: **26+**	70

This business has a Credit Score Percentile that shows:

- Lower risk than other companies in the same region.
- Lower risk than other companies in the same industry.
- Lower risk than other companies in the same employee size range.
- Lower risk than other companies with a comparable number of years in business.

Jump to:

Overview | Scores | Public Filings | History & Operations | Banking & Finance

Payments D&B EXCLUSIVE

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PAYMENT TRENDS (?) About Payment Trer

Back to Top

Total Payment Experiences in D&B's File: 74

Current PAYDEX is: **76** equal to 6 days

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				beyond terms
Payments Within Terms: (not dollar weighted)	94%	**Industry Median is:**	**75**	equal to 8 days beyond terms
Total Placed For Collection:	0	**Payment Trend currently is:**		**unchanged,** compared to payments three months ago
Average Highest Credit:	$8,670			
Largest High Credit:	$100,000			
Highest Now Owing:	$85,000			
Highest Past Due:	$65,000			

Indications of slowness can be the result of dispute over merchandise, skipped invoices, etc. Accounts are sometimes placed for collection even though the existence or amount of the debt is disputed.

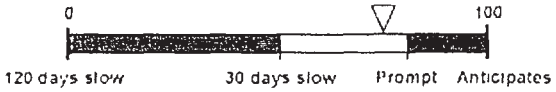
PAYDEX Scores
Back to Top

About PAYDEX Scor

Shows the D&B PAYDEX scores as calculated on the most recent 3 months and 12 months of payment experiences

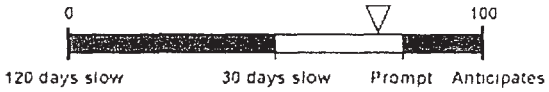
The D&B PAYDEX is a unique, dollar weighted indicator of payment performance based on up to payment experiences as reported to D&B by trade references. A detailed explanation of how to read and interpret PAYDEX scores can be found at the end of this report.

3-Month D&B PAYDEX: 75
When weighted by dollar amount, payments to suppliers average 8 days beyond terms.



Based on payments collected over last 3 months.

12-Month D&B PAYDEX: 76
When weighted by dollar amount, payments to suppliers average 6 days beyond terms.



Based on payments collected over last 12 months.

D&B PAYDEX Key

- High risk of late payment (average 30 to 120 days beyond terms)
- Medium risk of late payment (average 30 days or less beyond terms)
- Low risk of late payment (average prompt to 30+ days sooner)

PAYDEX Yearly Trend
Back to Top

About PAYDEX Yearly Tre

12 Month PAYDEX Scores Comparison to Industry

	1/05	2/05	3/05	4/05	5/05	6/05	7/05	8/05	9/05	10/05	11/05	12/05
This Business	79	77	76	76	76	76	76	75	76	76	76	76
Industry Quartiles												
Upper			79			79			79			79
Median			75			76			75			75
Lower			69			69			69			68

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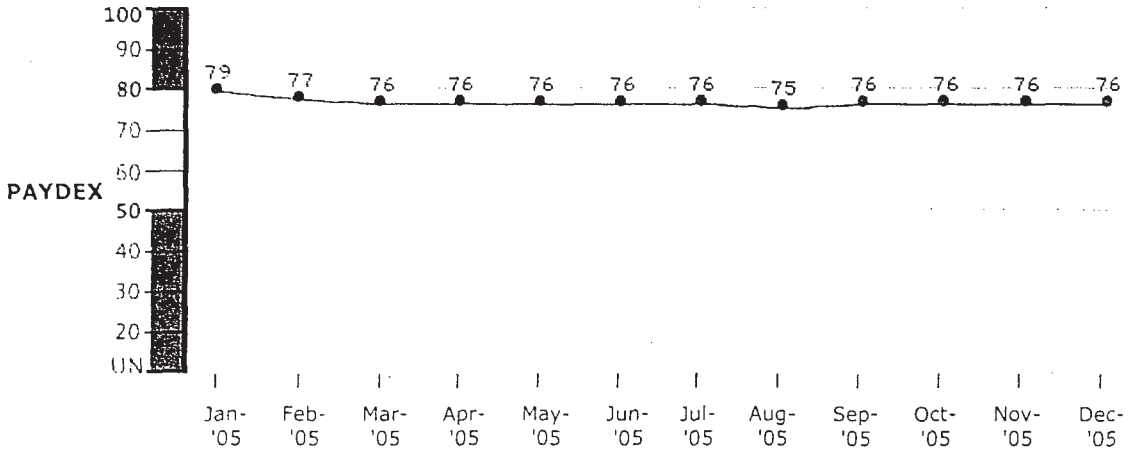
Shows the trend in D&B PAYDEX scoring over the past 12 months.



Last 12 Months

Based on payments collected over the last 12 months.

- Current PAYDEX for this Business is 76, or equal to 6 days beyond terms
- The 12-month high is **79**, or equal to 2 days beyond terms
- The 12-month low is **75**, or equal to 8 days beyond terms

PAYDEX Comparison to Industry

Back to Top

About PAYDEX Comparison to Indus

Shows PAYDEX scores of this Business compared to the Primary Industry from each of the last four quarters. The Primary Industry is Mfg greases & blends lubricating oils, based on SIC code 2992.

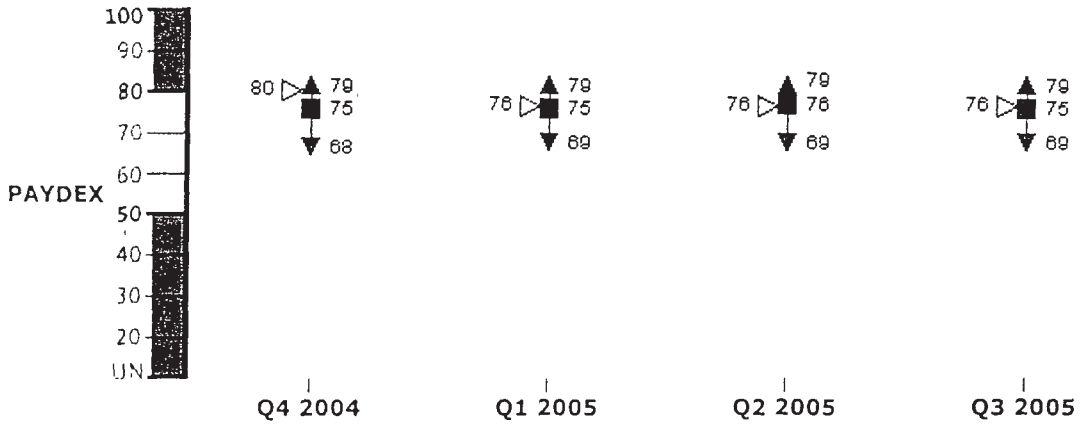
Quarterly PAYDEX Scores Comparison to Industry

Previous Year

	12/03	3/04	6/04	9/04
This Business	UN	76	79	79
Industry Quartiles				
Upper	79	79	79	79
Median	75	75	75	75
Lower	69	69	69	68

Current Year

	12/04	3/05	6/05	9/05
This Business	80	76	76	76
Industry Quartiles				
Upper	79	79	79	79
Median	75	75	76	75
Lower	68	69	69	69



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Last 12 Months

Based on payments collected over the last 4 quarters.

Score Comparison Key: ▷ This Business ▲ Industry upper quartile ■ Industry median ▼ Industry lower quartile

- Current **PAYDEX** for this Business is **76**, or equal to 6 days beyond terms
- The present industry **median score** is **75**, or equal to 8 days beyond terms.

- Industry upper quartile represents the performance of the payers in the 75th percentile
- Industry lower quartile represents the performance of the payers in the 25th percentile

Payment Habits
Back to Top

About Payment Hat

For all payment experiences within a given amount of credit extended, shows the percent that this Business paid within terms. Provides number of experiences used to calculate the percentage, and the total dollar value of the credit extended.

$ Credit Extended	% of Payments Within Terms	# Payment Experiences	$ Total Dollar Amount
Over 100,000	83%	3	$300,000
50,000-100,000	100%	2	$105,000
15,000-49,999	86%	4	$105,000
5,000-14,999	100%	6	$40,000
1,000-4,999	87%	18	$28,500
Under 1,000	97%	35	$11,100

0% 50% 100%

Based on payments collected over the last 12 months.

Payment experiences reflect how bills are met in relation to the terms granted. In some instances, payment beyond terms can be the result of disputes over merchandise, skipped invoices, etc.

PAYMENT SUMMARY
Back to Top

About Payment Summa

The Payment Summary section reflects payment information in D&B's file as of the date of this report.

There are 74 payment experiences in D&B's file for the most recent 12 months, with 58 experiences reported during the last three month period.

Below is an overview of the company's dollar-weighted payments, segmented by its suppliers' primary industries:

Total Rcv'd (#)	Total Dollar Amts ($)	Largest High Credit ($)	Within Terms (%)	Days Slow <31 31-60 61-90 90> (%)

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Top industries:

Trucking non-local	20	15,950	2,500	91	9	0	0	0
Nonclassified	7	31,250	10,000	100	0	0	0	0
Telephone communictns	4	900	500	100	0	0	0	0
Mfg inorganic chemcls	3	155,000	100,000	100	0	0	0	0
Whol electrical equip	3	1,350	1,000	100	0	0	0	0
Radiotelephone commun	3	650	500	100	0	0	0	0
Short-trm busn credit	3	1,250	500	90	10	0	0	0
Petroleum refining	2	155,000	100,000	100	0	0	0	0
Whol industrial suppl	2	100,250	100,000	50	50	0	0	0
Misc business credit	2	1,250	750	100	0	0	0	0
Mfg metal cans	1	50,000	50,000	100	0	0	0	0
Paperboard mill	1	30,000	30,000	50	0	0	0	50
Whol chemicals	1	20,000	20,000	100	0	0	0	0
Sawmill/planing mill	1	5,000	5,000	100	0	0	0	0
Mfg millwork	1	5,000	5,000	100	0	0	0	0
Whol misc profsn eqpt	1	5,000	5,000	100	0	0	0	0
Mfg crowns/closures	1	2,500	2,500	50	50	0	0	0
Whol industrial equip	1	2,500	2,500	100	0	0	0	0
General warehousing	1	2,500	2,500	50	50	0	0	0
Ret mail-order house	1	1,000	1,000	100	0	0	0	0
Natural gas distrib	1	1,000	1,000	100	0	0	0	0
Ret-direct selling	1	750	750	100	0	0	0	0
Mfg photograph equip	1	250	250	100	0	0	0	0
Mfg paint/allied prdt	1	250	250	100	0	0	0	0
Regulate trnsprtation	1	250	250	100	0	0	0	0
Mfg industrial gases	1	250	250	100	0	0	0	0
Whol durable goods	1	250	250	100	0	0	0	0
Whol electronic parts	1	100	100	100	0	0	0	0
Whol service paper	1	100	100	100	0	0	0	0
Whol hardware	1	50	50	100	0	0	0	0
Whol metal	1	0	0	0	0	0	0	0

Other payment categories:

Cash experiences	0	0	0
Payment record unknown	4	32,850	25,000
Unfavorable comments	0	0	0

Placed for collections:

With D&B	0	0	0
Other	0	N/A	0
Total in D&B's file	74		100,000

The highest **Now Owes** on file is $85,000 The highest **Past Due** on file is $65,000

Accounts are sometimes placed for collection even though the existence or amount of the debt is disputed. Indications of slowness can be result of dispute over merchandise, skipped invoices, etc.

PAYMENT DETAILS

Back to Top

About Payment Deta

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Detailed payment history

Date Reported	Paying Record	High Credit	Now Owes	Past Due	Selling Terms	Last Sale

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(mm/yy)		($)	($)	($)		Within (months)
11/05	Ppt	30,000	0	0		1 mo
	Ppt	5,000	5,000	0		1 mo
	Ppt	2,500	750	0	N15	1 mo
	Ppt	1,000	1,000	0		1 mo
	Ppt	1,000	100	0	N15	1 mo
	Ppt	500	0	0		1 mo
	Ppt	250	0			2-3 mos
	Ppt	250	0	0	N15	1 mo
	Ppt	250	0	0	N15	4-5 mos
	Ppt	0	0	0		6-12 mos
	Ppt-Slow 30	2,500	2,500	0	N15	1 mo
	Ppt-Slow 30	2,500	2,500	750		1 mo
	(013)	25,000	15,000			1 mo
	(014)	7,500	7,500	0	N30.	1 mo
	(015)	100	0	0		1 mo
10/05	Ppt	100,000	0	0		1 mo
	Ppt	100,000	85,000	20,000		1 mo
	Ppt	50,000	2,500	0	N30	1 mo
	Ppt	25,000	25,000	0		1 mo
	Ppt	10,000	0	0		4-5 mos
	Ppt	7,500	0	0		1 mo
	Ppt	5,000	250	0		1 mo
	Ppt	5,000	2,500	0	N30	1 mo
	Ppt	2,500	0	0		1 mo
	Ppt	2,500	750	0		1 mo
	Ppt	1,000	250	250		1 mo
	Ppt	1,000	0	0		2-3 mos
	Ppt	1,000	0	0		2-3 mos
	Ppt	1,000	100	0		1 mo
	Ppt	1,000	0	0	N30	2-3 mos
	Ppt	1,000	750	0	N30	1 mo
	Ppt	1,000	500	0		1 mo
	Ppt	750	0	0		6-12 mos
	Ppt	750	0	0	N30	4-5 mos
	Ppt	500	100	0		1 mo
	Ppt	500	50	0		1 mo
	Ppt	500	0	0		6-12 mos
	Ppt	500	0	0		4-5 mos
	Ppt	250	0	0		1 mo
	Ppt	250	0	0		1 mo
	Ppt	250	100	0		1 mo
	Ppt	250	0	0	N30	4-5 mos
	Ppt	250	0	0		2-3 mos
	Ppt	250	0	0		2-3 mos
	Ppt	100	100	0		1 mo
	Ppt	100	0	0		2-3 mos
	Ppt	50	0	0	N30	6-12 mos
	Ppt	50	50	0		1 mo
	Ppt	0	0	0	N15	6-12 mos

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	Ppt-Slow 30	100,000	75,000	65,000		1 mo
	Ppt-Slow 30	2,500	0	0		2-3 mos
	Ppt-Slow 90+	30,000	25,000	0		1 mo
	(053)	250	250	0	N30	
09/05	Ppt	750	50		Lease Agreemnt	
	Ppt	500	250	0		1 mo
	Ppt	500	500	0		1 mo
	Ppt-Slow 30	250	50	0		1 mo
	(058)	250				1 mo
	Satisfactory.					
08/05	Ppt	1,000	0	0	N30	6-12 mos
	Ppt	750	0	0		1 mo
	Slow 30	250	0	0		6-12 mos
06/05	Ppt	250	0	0		2-3 mos
	Ppt	100	0	0		6-12 mos
05/05	Ppt	7,500	0	0		6-12 mos
	Ppt	2,500	0	0		6-12 mos
04/05	Ppt	500	500	0		1 mo
	Ppt	100	0	0	N30	6-12 mos
01/05	Ppt	1,000	250	0		1 mo
	Ppt	100	0	0	N30	6-12 mos
	Ppt	100	0	0		2-3 mos
	Ppt	50	0	0	N30	6-12 mos
12/04	Ppt	100	0	0	N30	6-12 mos
09/04	Ppt	55,000	55,000	0		1 mo
	Ppt	20,000	0	0		6-12 mos

Payments Detail Key: ■ 30 or more days beyond terms

Payment experiences reflect how bills are met in relation to the terms granted. In some instances payment beyond terms can be the result of disputes over merchandise, skipped invoices etc.

Each experience shown is from a separate supplier. Updated trade experiences replace those previously reported.

Jump to:

Overview | Scores | Payments | History & Operations | Banking & Finance

Public Filings

PUBLIC FILINGS

Back to Top

The following data includes both open and closed filings found in D&B's database on the subject company.

Record Type	# of Records	Most Recent Filing Date
Bankruptcy Proceedings	0	-
Judgments	0	-
Liens	1	09/30/1998
Suits	0	-
UCC's	5	11/12/2004

FJK000046

The following Public Filing data is for information purposes only and is not the official record. Certified copies can

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only be obtained from the official source.

LIENS
Back to Top

About Lie

A lienholder can file the same lien in more than one filing location. The appearance of multiple liens filed by the same lienholder against a debtor may be indicative of such an occurrence.

Amount:	**$4,649**
Status:	**Released**
DOCKET NO.:	98JG14029
Type:	State Tax
Filed by:	STATE OF OHIO
Against:	FISKE BROTHERS REFINING COMPANY
Where filed:	FRANKLIN COUNTY COMMON PLEAS COURT, COLUMBUS, OH
Date status attained:	12/03/1998
Date filed:	09/30/1998
Latest Info Received:	11/25/2002

UCC FILINGS
Back to Top

About UCC Filir

Collateral:	Negotiable instruments including proceeds and products - Inventory including proceeds and products - Accounts receivable including proceeds and products - Assets including proceeds and products - and OTHERS
Type:	Original
Sec. party:	SOVEREIGN BANK, ITS SUCCESSORS AND/OR ASSIGNS, PRINCETON, NJ
Debtor:	FISKE BROTHERS REFINING COMPANY
Filing number:	0411121139216
Filed with:	SECRETARY OF STATE/UCC DIVISION, ALBANY, NY
Date filed:	11/12/2004
Latest Info Received:	11/18/2004

Collateral:	Products - Proceeds - LEASES,SPECIFIC EQUIPMENT
Type:	Original
Sec. party:	AT & T CREDIT CORPORATION, PARSIPPANY, NJ
Debtor:	FISKE BROTHERS REFINING CO INC
Filing number:	AM91788
Filed with:	SECRETARY OF STATE/UCC DIVISION, COLUMBUS, OH
Date filed:	07/29/1996
Latest Info Received:	09/06/1996

Collateral:	Leased Equipment
Type:	Original
Sec. party:	LYNNRAY FINANCIAL CORPORATION, NORCROSS, GA
Debtor:	FISKE BROTHERS REFINING COMPANY, TOLEDO, OH
Filing number:	AP305622
Filed with:	SECRETARY OF STATE/UCC DIVISION, COLUMBUS, OH
Date filed:	01/04/2001
Latest Info Received:	03/16/2001

Collateral:	Leased CONSIGNED MERCHANDISE including proceeds and products
Type:	Original
Sec. party:	AT&T CREDIT CORPORATION, PARSIPPANY, NJ
Debtor:	FISKE BROTHERS REFINING CO INC
Filing number:	1699926
Filed with:	SECRETARY OF STATE/UCC DIVISION, TRENTON, NJ
Date filed:	05/22/1996
Latest Info Received:	06/17/1996

FJK000047

932110062

932110063

Type:	Continuation
Sec. party:	FIRST UNION NATIONAL BANK F/K/A FIRST FIDELITY BANK, N.A., N.J., NEWARK, NJ
Debtor:	FISKE BROTHERS REFINING COMPANY
Filing number:	1465009
Filed with:	SECRETARY OF STATE/UCC DIVISION, TRENTON, NJ
Date filed:	05/16/1997
Latest Info Received:	07/15/1997
Original UCC filed date:	07/16/1992
Original filing no.:	1465009

The public record items contained in this report may have been paid, terminated, vacated or released prior to the date this report was printed.

GOVERNMENT ACTIVITY About Government Activ
Back to Top

Activity summary

Borrower (Dir/Guar):	NO
Administrative debt:	NO
Contractor:	NO
Grantee:	NO
Party excluded from federal program(s):	NO

Possible candidate for socio-economic program consideration

Labor surplus area:	YES (2005)
Small Business:	YES (2005)
8(A) firm:	N/A

The details provided in the Government Activity section are as reported to Dun & Bradstreet by the federal government and other sources.

Jump to:

Overview | Scores | Payments | Public Filings | Banking & Finance

History & Operations

HISTORY About Histo
Back to Top

The following information was reported **09/15/2004**:

Officer(s): RICHARD T MC CLUSKEY, CHB-PRES
EMMETT F BARRETT, V PRES-TREAS
JAMES GIRARD, V PRES-GEN MGR
ROBERT A REH, EXECUTIVE VICE-PRESI
MICHAEL J MCCLUSKEY, SECRETARY

DIRECTOR(S): THE OFFICER(S)

Business started 1870 by Thomas and Frederick Fiske. Present control succeeded 1953. 100% of capital stock is owned by officers.

RICHARD T MC CLUSKEY born 1943. EDUCATION: Graduated from Rutgers University, Newark, NJ. INDUSTRY EXPERIENCE: Employed here since 1962, elected officer 1974.

EMMETT F BARRETT born 1944. EDUCATION: Graduated from St Peter's College, Jersey City, NJ. INDUSTRY EXPERIENCE: Started here 1962, elected officer 1982.

FJK000048

JAMES GIRARD born 1956. EDUCATION: Graduated from Seton Hall University, South Orange, NJ. INDUSTRY EXPERIENCE: Employed here since 1980 as district manager and salesman, named vice president and general manager in 1981.

ROBERT A REH. antecedents ARE UNDETERMINED.

CORPORATE FAMILY About Corporate Fam
Back to Top

View the interactive global family tree for this business - now included as part of your Preferred Pricing subscription.

For more details on the Corporate Family, view the interactive global family tree

Branches (US):
Select companies below to buy Business Information Report(s).

Fiske Brothers Refining Co	Toledo, OH	DUNS # 00-504-3690

BUSINESS REGISTRATION About Business Registrat
Back to Top

CORPORATE AND BUSINESS REGISTRATIONS PROVIDED BY MANAGEMENT OR OTHER SOURCE

The Corporate Details provided below may have been submitted by the management of the subject business and may not have been verified with the government agency which records such data.

Registered Name: Fiske Brothers Refining Co (Inc)

Business type: CORPORATION
Corporation type: PROFIT
Date incorporated: FEB 10 1891
State of incorporation: NEW YORK

Common stock
Authorized shares: 21,600
Par value: NO PAR VALUE

Where filed: Secretary of State, Albany, NY

OPERATIONS About Operatic
Back to Top

09/15/2004

Description: Manufactures greases and blends lubricating oils. ISO 9001/QS-9000 Registered Quality System.

ADDITIONAL TELEPHONE NUMBER(S): Facsimile (Fax) 973 589-4432.

Terms are Terms are cash, check or credit card, net 30 days and 2% 10 net 30 days. Has 3,000 account(s). Sells to manufacturers, retail and commercial concerns. Territory : USCAN.

Nonseasonal.

Employees: 109 which includes officer(s). 34 employed here.

Facilities: Owns 100,000 sq. ft. in two story brick building.

Location: Industrial section on side street.

Branches: The business also owns a 180,000 sq. ft. facility at 1500 Oakdale Ave, Toledo, OH where all manufacturing is conducted as of Dec 1991.

FJK000049

932110064

SIC & NAICS
Back to Top

About SIC & NAI

SIC:

Based on information in our file, D&B has assigned this company an extended 8-digit SIC. D&B's use of 8-digit SICs enables us to be more specific to a company's operations than if we use the standard 4-digit code.

The 4-digit SIC numbers link to the description on the Occupational Safety & Health Administration (OSHA) Web site. Links open in a new browser window.

29929901 Oils and greases, blending and compounding

NAICS:

324191 Petroleum Lubricating Oil and Grease Manufacturing

Jump to:

Overview | Scores | Payments | Public Filings | History & Operations

Banking & Finance

STATEMENT UPDATE
Back to Top

About Statement Upd

05/24/2005

Fiscal statement dated DEC 31 2004:

Assets		Liabilities	
Cash	2,312,373	Accounts Payable & Accruals	4,422,932
Accts Rec	2,350,616		
Inventory	5,101,301		
Refundable Taxes	108,000		
Deferred Income Taxes	244,305		
Advances To Employees	27,530		
Deferred Financing Costs-Net	26,280		
Prepaid	287,471		
Curr Assets	**$10,457,876**	**Curr Liabs**	**$4,422,932**
Fixt & Equip	4,740,388	L.T. Liab-Other	4,899,079
Prepaid Income Taxes	362,000	CAPITAL STOCK	2,160,000
Investments-Other	867,244	ACCUM OTHER COMPREHENSIVE LOSS-NET	(128,964)
Other Assets	2,524,780	RETAINED EARNINGS	14,760,590
		TREASURY STOCK	(7,161,349)
Total Assets	**$18,952,288**	**Total**	**$18,952,288**

Extent of audit, if any, not indicated.

Fixed assets shown net less $6,520,556 depreciation.

BANKING

About Bank

FJK000050

932110065

Back to Top

BANK: First Union Bank, Newark, NJ

KEY BUSINESS RATIOS
Back to Top

About Key Business Rat

Statement date: DEC 31 2004
Based on this number of establishments: 26

Industry Norms based on 26 establishments

	This Business	Industry Median	Industry Quartile
Profitability			
Return on Sales	UN	2.2	UN
Return on Net Worth	UN	15.6	UN
Short-Term Solvency			
Current Ratio	2.4	2.1	2
Quick Ratio	1.1	1.1	2
Efficiency			
Assets Sales	78.1	41.2	4
Sales / Net Working Capital	UN	8.2	UN
Utilization			
Total Liabs / Net Worth	96.8	112.8	2

UN = Unavailable

FINANCE
Back to Top

About Finar

09/15/2004

Three-year statement comparative:

	Fiscal Dec 31 1999	Fiscal Dec 31 2000	Fiscal Dec 31 2001
Current Assets	12,694,947	11,114,757	11,603,747
Current Liabs	2,471,821	2,498,664	2,121,741
Current Ratio	5.14	4.45	5.47
Working Capital	10,223,126	8,616,093	9,482,006
Other Assets	10,411,756	10,893,678	10,156,401
Net Worth	19,034,997	17,896,846	17,851,791
Sales	15,000,000		
Long Term Liab	1,599,885	1,612,925	1,786,616

Fiscal statement dated DEC 31 2002:

Assets		**Liabilities**	
Cash	5,077,436	Accts Pay	2,103,650
Accts Rec	1,929,079		
Inventory	4,589,750		

FJK000051

932110066

Refundable Taxes	120,000		
Deferred Income Taxes	298,000		
Due from Employees	37,187		
Prepaid	99,637		
Curr Assets	**$12,151,089**	**Curr Liabs**	**$2,103,650**
Fixt & Equip	5,428,161	L.T. Liab-Other	1,921,109
Defered Charges	3,423,240	CAPITAL STOCK	2,160,000
Investments-Other	814,404	Treasury Stock	(1,645,152)
		RETAINED EARNINGS	17,277,287
Total Assets	**$21,816,894**	**Total**	**$21,816,894**

From JAN 01 2002 to DEC 31 2002 annual sales $24,264,538; cost of goods sold $12,333,494. Gross profit $11,931,044; operating expenses $10,473,498. Operating income $1,457,546; other expenses $674,342; net income before taxes $783,204; Federal income tax $122,718. Net income $660,486.

Submitted by E F Barrett, V Pres Treasurer. Extent of audit, if any, not indicated.

Fixed assets shown net less $5,333,920 depreciation.

Sources contacted verified information on September 7, 2004.

CUSTOMER SERVICE

Back to Top

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Overview Scores Payments Public Filings History & Operations Banking & Financ

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ZapData | Global Family Linkage | Global Marketing Lists
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FJK000052

932110067

9

932110068

Finding Aid: Trade Catalogs: New Brunswick - North Hackensack

- New Brunswick
- New Egypt
- New Hampton
- New Market
- Newark
- North Bergen
- North Brunswick
- North Hackensack
- Nutley

N

New Brunswick

The American and the Wishbone.
New Brunswick, N.J.: American Incubators Inc., 1929.
Illustrated catalog of incubators to raise chicks.
[Size 3]

The American and the Wishbone Mammoth Incubators.
New Brunswick, N.J.: American Incubators Inc., 1929.
Advertisement and price list for incubators to raise chicks.
[Size 2]

The Annihilator cough syrup.
New Brunswick, N.J.: McDonald & Sons Druggists, [1852].
Includes other drugs the store sold.
[Size 1]

Annual descriptive catalogue of garden, field and flower seeds.
New Brunswick, N.J.: Cherry Lawn Farm, 1872.
Also includes vegetable plants, seed potatoes, fertilizers, small fruits and books.
[Size 1]

Brunswick Blueprint Co.
New Brunswick, N.J.: Brunswick Blueprint Co., 1983.
[Size 1]

FJK000053

The Brunswick refrigerating and ice making machinery reference list.
New Brunswick, N.J.: The Brunswick Refrigeration Co., [s.a.].
[Size 1]

932110069

The long distance electric truck.
Newark, N.J.: Atlantic Vehicle Co., [s.a.].
Factory located in Newark.
[Size 2]

Longer routes.
Newark, N.J.: Atlantic Vehicle Company, [s.a.].
[Size 1]

Lubriplate, the white waterproof lubricant: best for reels and guns!
Newark, N.J.: Lubriplate Division, Fiske Brothers Refining Co., [between 1950 and 1960].
[Size 3]

The Macknet rocking grate.
Newark, N.J.: The Macknet Grate Bar Co., [1896].
Rocking grate for more efficient industrial coal burning.
[Size 1]

Made expressly for Westcott Motor Car Co. by Radel Leather Manufacturing Co.
Newark, N.J.: Radel Leather Manufacturing Co., 1917.
Automobile Spanish Leather.
[Size 4]

Magnolia isotropic die-cast bearing bronze.
Newark, N.J.: Magnolia Metal Company, Inc., [19--].
[Size 2]

Maintenance catalogue and selection guide to air filters for air conditioning, heating & ventilating.
Newark, N.J.: Mercury Filter Corp., [19--].
[Size 2]

Make any wall a thrilling "picture window" with a Foto Mural in natural color.
Newark, N.J.: Damar Products, Inc., 1954.
[Size 2]

Maltbie pharmaceutical products.
Newark, N.J.: The Maltbie Chemical Co., 1933.
Detailed descriptions and prices of pharmaceutical compounds and products.
[Size 1]

Mapes complete manures.
New York, N.Y.: The Mapes Formula and Peruvian Guano Co., 1886.
Works at Newark, N.J., for sale by Thos. Lupton, Matawan, N.J.
[Size 1]

Mercury's free introductory conversion kit offer.
Newark, N.J.: Mercury Filter Corp., [19--].
[Size 2]

The Merrill Shops.
Newark, N.J.: The Merrill Shops, [ca. 1930].
Catalog and prices of pewter.
[Size 1]

FJK000054

Miniature catalogue.
Newark, N.J.: Thomas Kelly, Manufacturer, [between 1890 and 1909].

932110070

Success Stories

View Stories By: State | Center | Highlights | Search

Fiske Brothers Refining Co

Center Name: Ohio Manufacturing Extension Partnership

Client Profile: Fiske Brothers Refining Company manufactures and distributes lubricating grease and oil products for the industrial, automotive, food, beverage and pharmaceutical industries. Its facilities--in Toledo, Ohio and Newark, New Jersey--employ less than 100 people

Situation: Fiske Brothers knows that to stay in business 130 years a business has to be adaptable, responsive, progressive, and well informed. Fiske Brothers opened its doors in 1871 in a world with no automobiles, typewriters or telephones. Today, Fiske is registered in the most progressive quality standards currently accepted in the industry: QS 9000, ISO 9001, and it is pursuing ISO 14001. The company also is implementing lean manufacturing techniques within its operations and exploring eBusiness strategies.

A quality system surveillance audit by Fiske's registrar in 1999 revealed nonconforming procedures in element 4.2, Advanced Product Quality Planning and Control Plans. For assistance correcting the problem, Quality Manager Jacki Dusza contacted the Lake Erie Manufacturing Extension Partnership (LEMEP), a NIST MEP network affiliate, because she was already pleased with the resource center's internal auditor training programs. Fiske Brothers engaged LEMEP to revise and streamline the portion of the plans and processes that had failed the audit.

Solution: LEMEP team members conducted an ISO gap analysis to address the problem. The company applied lean techniques to solve the issue and regain compliance. Over the past few years, Fiske Brothers has worked with LEMEP and its host organization, EISC, Inc., on several projects. The company sent employees for training at EISC, and received hands-on training at its own facility. In mid-2000, Fiske worked with LEMEP on additional ISO/QS 9000 internal auditor training and an ISO 9001:2000 update. In 2001, Fiske Brothers sent teams of associates to LEMEP for Lean 101 and ISO 14001 internal auditor training. LEMEP has also assisted the company in finding ways to reduce energy costs, resulting in significant savings.

Results: Identified steam leaks and repaired boiler system to reduce natural gas costs by $20,000 per year. Decreased monthly energy costs by staggering motor starts throughout the day.
Addressed ISO 14001 gaps to comply with quality standards.
Participated in internal auditor training

Testimonial: *"The Lake Erie Manufacturing Extension Partnership walked us through all aspects of environmental management. It's nearly impossible to put a dollar value on LEMEP's knowledge and background in environmental applications, regulations, and standards."*

Jacki Dusza, Quality Manager

Activity Period: 2001-4

Back
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Page Created/Updated: 10/14/2003
Contact: webmaster@mep.nist.gov

FJK000057

932110072

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Advanced Lubricant Technology
For All Industries.

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- Air Compressor and Vacuum Pump Oils
- Hydraulic Oils
- Multi-Purpose Greases
- Greases For Special Applications
- Gear, Bearing & Recirculating Oils
- Specialty Lubricants
- Food Machinery Lubricants NSF H-1 Class
- Automotive Lubricants
- Motor Oils
- Metal Working Fluids
- Spray Lubricants, Grease Cartridges and Tubes

ISO
9001
Registered
Quality System

LUBRIPLATE®

Lubrication Data Book

932110074

Contents

Multi-Purpose Synthetic Fluids

4-5 Air Compressor Fluids

6 Hydraulic Oils

7 Multi-Purpose Greases

8 Greases For Special Applications

9 Gear, Bearing & Recirculating Oils

10 Specialty Lubricants

11-13 Food Machinery Lubricants NSF H-1 Class

14 Automotive Lubricants
Motor Oils
Metal Working Fluids

15 Packaging Containers
Spray Lubricants, Grease Cartridges and Tubes

16 General Application Chart
Lubricant Classification Comparison Chart
Lubriplate District Managers

FJK000059

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LUBRIPLATE DIVISION / Fiske Brothers Refining Company

Corporate Headquarters / 129 Lockwood Street / Newark, NJ 07105
PHONE 800-733-4755 / FAX 973-589-4432 / FAX 800-347-5329

Midwest Office & Plant / 1500 Oakdale Ave. / Toledo, OH 43605
PHONE 419-691-2491 / FAX 419-693-3806 / FAX 800-347-5348

www.lubriplate.com or Email us at info@lubriplate.com

932110075

Introduction

To: Our LUBRIPLATE Distributors and Consumers

Ladies and Gentlemen:

Thank you for your interest in LUBRIPLATE Lubricants. For 135 years, our Company has manufactured and sold only the highest quality lubricants to all types of industry. The advent of ISO-9000 has given us the opportunity to prove that "*we practice what we preach.*" As an ISO-9001 registered company, all of our employees have totally committed themselves to developing, manufacturing and selling quality products that meet and exceed your expectations. Our commitment to maintaining ISO-9001 certification provides us with a bright and strong future. We appreciate your consideration of LUBRIPLATE Lubricants. We realize that we must constantly work to earn and maintain your trust.

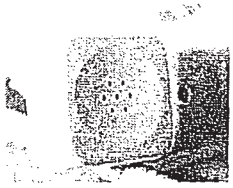
Sincerely,

Richard T. McCluskey

Richard T. McCluskey
President and Chief Executive Officer
e-mail: RichardM@lubriplate.com

ISO 9001 Registered Quality System

Complimentary Value Added Services Offered



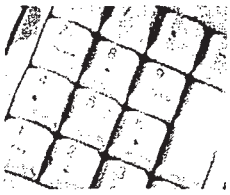
Toll Free Technical Support Hotline:

Call our technical service center toll free at **800-347-5343** for answers to your lubrication questions by phone, or contact your nearest Lubriplate district manager (listed on back cover) or your local distributor representative for complete technical support.

FJK000060

Complete Plant Surveys and Lubricant Inventory Consolidation:

Complete plant surveys by our professional staff of lubrication engineers are also available to determine your exact lubricant requirements and identify opportunities for lubricant inventory consolidation and lubricant application consolidation.

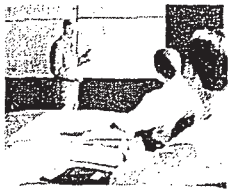


Lubrication Maintenance Software:

Lubriplate offers a PC based computer software program that puts your entire lubrication and maintenance schedules at your fingertips. This service is based on a complete survey of your entire plant. Contact Dan Moroses (Newark office) for details at **973-589-9150**.

No-Charge Oil / Fluid and Grease Analysis:

We encourage the use of our Fluid and Grease Analysis Program that is offered at no-charge on all Lubriplate products. Tests that are performed include: Viscosity, Acidity, Contamination (% sediment and % moisture,) Spectrochemical (PPM of wear metals and additives) ISO Cleaniiness (optional). An interpretation of the results is included along with suggested actions to take.

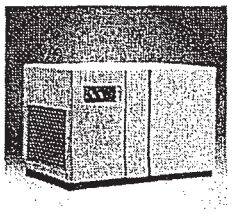


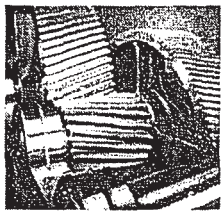
In Plant User Lubrication Training and Distributor Training:

Lubriplate offers training programs tailored to fit your needs. Our lubrication engineering training sessions are not glorified sales meetings. Rather, they discuss all facets of machinery lubrication, lubricants and correct lubricant selection. All seminars are graphically presented with overheads, and other support material. Available on-site at your facility or off-site in a conference room of a local hotel. Contact us at **800-733-4755** to arrange a no charge lubrication seminar.

Multi-Purpose Synthetic Fluids

Syn-Lube Series: Multi-Purpose, Polyalphaolefin (PAO)-Based Synthetic Fluids.





These multi-purpose polyalphaolefin (PAO) based, zinc-free fluids are formulated with state of the art additives. These fluids provide outstanding performance over extended drain intervals. Syn-Lube 22, 32, 46, 68 & 100 are recommended for many types of rotary screw and piston type air compressors, hydraulic systems, blowers, and turbine oil applications. Syn-Lube 150, 220, 320, 460, & 680 are recommended for gearboxes, bearings, chains and recirculating systems.

LUBRIPLATE PRODUCT	*PRODUCT PART NO.	ISO GRADE	SAE NO.	SAE GEAR OIL NO.	VIS. cSt @40°C/100°C	VIS. SUS 100°F/210°F	VIS. INDEX	FLASH POINT	FIRE POINT	AUTO-IGNITION TEMPERATURE	POUR POINT
SYN LUBE 22	L0968-	22	5W	-	23 / 5	129 / 44	138	420°F / 216°C	470°F / 243°C	>700°F / 371°C	-70°F / -57°C
SYN LUBE 32	L0970-	32	10	-	32 / 6	160 / 47	136	470°F / 243°C	505°F / 263°C	>700°F / 371°C	-70°F / -57°C
SYN LUBE 46	L0971-	46	20	75W	44 / 8	223 / 52	138	485°F / 250°C	550°F / 288°C	>700°F / 371°C	-65°F / -54°C
SYN LUBE 68	L0972-	68	20	80W	66 / 10	314 / 58	138	515°F / 267°C	580°F / 304°C	>700°F / 371°C	-60°F / -51°C
SYN LUBE 100	L0973-	100	30	85W	110 / 15	523 / 66	142	530°F / 277°C	590°F / 310°C	>700°F / 371°C	-55°F / -48°C
SYN LUBE 150	L0974-	150	40	80W-90	162 / 21	816 / -	154	540°F / 282°C	590°F / 310°C	-	-60°F / -51°C
SYN LUBE 220	L0975-	220	50	90	199 / 25	988 / -	154	540°F / 282°C	580°F / 304°C	-	-55°F / -48°C
SYN LUBE 320	L0976-	320	60	80W-140	310 / 35	1545 / -	157	540°F / 282°C	585°F / 307°C	-	-50°F / -46°C
SYN LUBE 460	L0977-	460	70	140	440 / 47	2191 / -	164	550°F / 288°C	585°F / 307°C	-	-50°F / -46°C
SYN LUBE 680	L0978-	680	-	-	705 / 68	3384 / -	170	555°F / 291°C	580°F / 304°C	-	-45°F / -43°C

*Syn Lube 22 through 100 is available in Pails & Drums. Syn Lube 150 through 680 is available in Jugs, Pails, 1/4 Drums & Drums. See page 15 for package part number suffix.

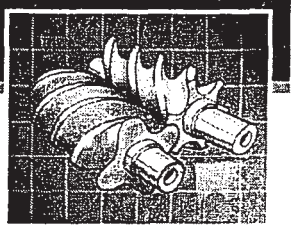
Synthetic High Temp Fluids 68 and 220: 100% Ester-Based Fluids.

These 100% ester based synthetic lubricants are recommended for use on bakery oven chains, drying oven chains, tenter frame chains, heat treating chains, paint curing oven chains and any other type of bearing/slide/gearbox applications where they are exposed to high operating temperatures and must maintain a clean lubricated surface. Available in ISO viscosity grades 68 and 220. Proven successful in applications in excess of 600°F / 316°C.

LUBRIPLATE PRODUCT	*PRODUCT PART NO.	ISO GRADE	SAE NO.	VIS. cSt @40°C/100°C	VIS. SUS @100°F/210°F	VIS. INDEX	FLASH POINT	FIRE POINT	POUR POINT
SYN High Temp 68	L0778-	68	20	74 / 11	364 / 58	109	554°F / 290°C	640°F / 338°C	-25°F / -32°C
SYN High Temp 220	L0780-	220	90	220 / 19	1112 / 102	92	525°F / 274°C	580°F / 304°C	-5°F / -21°C

*SYN High Temp 68 & 220 is available in Pails & Drums. See page 15 for more information and package part number suffix.

Synthetic Air Compressor Fluids



Syncool Series: Polyglycolester-Based Synthetic Compressor Fluids.

These polyglycolester-based, synthetic fluids are designed for rotary screw air compressors. They offer excellent heat transfer properties, low evaporation, high flash points, and outstanding oxidation resistance, eliminating varnish and sludge. Fluid change intervals are 8,000 hours under normal operating conditions.

LUBRIPLATE PRODUCT	*PRODUCT PART NO.	ISO GRADE	SAE NO.	VIS. cSt @40°C/100°C	VIS. SUS @100°F/210°F	VIS. INDEX	FLASH POINT	FIRE POINT	POUR POINT
SYNCOOL 32	L0965-	32	10	30 / 6	165 / 34	156	485°F / 252°C	550°F / 288°C	-60°F / -51°C
SYNCOOL 46	L0966-	46	20	47 / 9	232 / 55	180	470°F / 243°C	555°F / 290°C	-50°F / -46°C

*Syncool Series Fluids are available in Pails & Drums. See page 15 for more information and package part number suffix.

Synac Series: Diester-Based Synthetic Compressor Fluids

FJK000061

These diester-based synthetic air compressor fluids are outstanding for applications where the fluid is subjected to high temperature and high stress conditions over extended drain intervals. Call our technical service line at 800-347-5343, for fluid and seal compatibility data and conversion procedures.

LUBRIPLATE PRODUCT	*PRODUCT PART NO.	ISO GRADE	SAE NO.	VIS. cSt @40°C/100°C	VIS. SUS @100°F/210°F	VIS. INDEX	FLASH POINT	FIRE POINT	POUR POINT
SYNAC 32	L0932-	32	10	31 / 6	155 / 46	135	450°F / 232°C	530°F / 277°C	-45°F / -43°C
SYNAC 46	L0933-	46	20	44 / 7	213 / 49	118	455°F / 235°C	535°F / 279°C	-35°F / -37°C
SYNAC 68	L0934-	68	20	64 / 8	311 / 53	98	455°F / 235°C	535°F / 279°C	-20°F / -29°C
SYNAC 100	L0935-	100	30	100 / 10	510 / 60	76	450°F / 232°C	530°F / 277°C	-15°F / -26°C
SYNAC 150	L0936-	150	40	147 / 13	754 / 71	71	540°F / 282°C	570°F / 299°C	-25°F / -32°C
SYNAC 220	L0937-	220	-	201 / 16	1003 / 83	74	545°F / 285°C	575°F / 302°C	-20°F / -29°C
SYNAC 320	L0938-	320	-	290 / 20	1496 / 99	77	475°F / 246°C	505°F / 263°C	-5°F / -20°C

*Synac Series Fluids are available in Pails & Drums. See page 15 for more information and package part number suffix.

AGMA-American Gear Manufacturers Association • ISO-International Standards Organization

932110077

Petroleum-Based Air Compressor Oils

AC Series: Petroleum-Based, Anti-Wear Fortified Compressor Oils.

These petroleum-based air compressor oils are especially formulated to reduce carbon and varnish buildup. These oils contain fluid zinc to effectively fight friction and wear thus reducing heat and foaming. Available in six ISO grades.

LUBRIPLATE PRODUCT	*PRODUCT PART NO.	ISO GRADE	SAE NO.	VIS. cSt @40°C/100°C	VIS. SUS @100°F/210°F	VIS. INDEX	FLASH POINT	FIRE POINT	POUR POINT
AC-0	L0704-	32	10	31 / 6	160 / 46	136	415°F / 213°C	440°F / 227°C	-30°F / -34°C
AC-1	L0705-	46	20	42 / 7	213 / 49	120	420°F / 216°C	450°F / 232°C	-25°F / -32°C
AC-2	L0706-	68	20	64 / 8	309 / 54	106	430°F / 221°C	465°F / 241°C	-20°F / -29°C
AC-2A	L0707-	100	30	99 / 12	518 / 66	104	445°F / 229°C	480°F / 249°C	-15°F / -26°C
AC-3	L0708-	150	40	135 / 14	690 / 75	102	460°F / 238°C	510°F / 266°C	-10°F / -23°C
AC-4	L0710-	220	40	162 / 16	840 / 83	101	470°F / 243°C	525°F / 274°C	0°F / -18°C

*AC Series Air Compressor Oils are available in Bottles, Jugs, Pails, 1/4 Drums & Drums. See page 15 for more information and package part number suffix.

Turbine Oil 32: Petroleum-Based Oil For Centrifugal Air Compressors.

This high-performance, zinc-free fluid meets the requirements of most centrifugal air compressors. Provides excellent oxidation resistance.

LUBRIPLATE PRODUCT	*PRODUCT PART NO.	ISO GRADE	SAE NO.	VIS. cSt @40°C/100°C	VIS. SUS @100°F/210°F	VIS. INDEX	FLASH POINT	FIRE POINT	POUR POINT
Turbine Oil 32	L0942-	32	10	32 / 5	152 / 44	113	390°F / 199°C	440°F / 227°C	-10°F / -23°C

*Turbine Oil 32 is available in Drums. See page 15 for more information and the package part number suffix.

Refrigeration Compressor Oils: 68-N (Naphthenic) & 68-P (Semi-Synthetic):

These highly refined lubricants are formulated for use in refrigeration compressor systems utilizing ammonia, CFC (chlorofluorocarbon) and HCFC (hydrochlorofluorocarbon) refrigerants such as R-717, R-11, R-12, R-13, R-113, R-114, R-115, R-22, R-123, R-141b, R-142b, R-500, R-501 and R-502. They are not recommended for use with HFC (hydroflurocarbon) refrigerants such as HFC-134a (R-134a).

LUBRIPLATE PRODUCT	*PRODUCT PART NO.	ISO GRADE	SAE NO.	VIS. cSt @40°C/100°C	VIS. SUS @100°F/210°F	VIS. INDEX	FLASH POINT	FIRE POINT	POUR POINT
68-N	L0842-	68	20	65 / 7	330 / 48	28	385°F / 196°C	435°F / 224°C	-35°F / -37°C
68-P	L0843-	68	20	63 / 9	315 / 42	106	468°F / 242°C	510°F / 266°C	-38°F / -39°C

*Refrigeration Compressor Oils 68N & 68P are available in Pails & Drums. See page 15 for more information and the package part number suffix.

RCO-68: NSF H-1 Registered, Food Grade, Refrigeration Compressor Fluid. See page 11 for information on this product.

Heavy-Duty Hydraulic Oils

HO Series: Petroleum-Based, Heavy-Duty Hydraulic Oils.

Formulated for superior performance, this series contains fluid zinc to effectively reduce ring and vane wear. Excellent anti-rust, anti-corrosion, anti-foam and anti-oxidation properties. High aniline points ensure long seal life with fewer leaks. They can withstand elevated temperatures and high pressures over extended drain intervals. High natural V.I. provides stable viscosities over a wide temperature range. Excellent ISO cleanliness ratings.

LUBRIPLATE PRODUCT	*PRODUCT PART NO.	ISO VIS. GRADE	AGMA NO.	SAE GEAR OIL NO.	SAE NO.	VIS. cSt @40°C/100°C	VIS. SUS @100°F/210°F	VIS. INDEX	FLASH POINT	FIRE POINT	POUR POINT
HO-0	L0760-	32	-	-	10	31 / 6	160 / 46	136	415°F / 213°C	440°F / 227°C	-30°F / -34°C
HO-1	L0761-	46	1	75	20	42 / 7	213 / 49	120	420°F / 216°C	450°F / 232°C	-25°F / -32°C
HO-2	L0762-	68	2	80	20	64 / 8	309 / 54	106	430°F / 221°C	465°F / 241°C	-20°F / -29°C
HO-2A	L0763-	100	3	80	30	99 / 12	518 / 66	104	445°F / 229°C	480°F / 249°C	-15°F / -26°C
HO-3	L0764-	150	4	85	40	135 / 14	690 / 75	102	460°F / 238°C	510°F / 266°C	-10°F / 23°C
HO-4	L0765-	150	5	90	40	162 / 16	840 / 83	101	470°F / 243°C	525°F / 274°C	0°F / -18°C
HO-5	L0766-	320	6	90	60	281 / 22	1510 / 111	96	480°F / 249°C	565°F / 296°C	10°F / -12°C

*HO Series Oils are available in Jugs, Pails, 1/4 Drums & Drums. See page 15 for more information and the package part number suffix.

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Low Temp Hydraulic Oils: Petroleum-Based Oils For Low Temperature Applications.

LOW TEMPERATURE HYDRAULIC OILS: MV-HO Multi-Viscosity, Special Low Pour, and Minus 70 Hydraulic Oil are for low temperature applications.

LUBRIPLATE PRODUCT	*PRODUCT PART NO.	ISO VIS. GRADE	AGMA NO.	SAE GEAR OIL NO.	SAE NO.	VIS. cSt @40°C/100°C	VIS. SUS @100°F/210°F	VIS. INDEX	FLASH POINT	FIRE POINT	POUR POINT
MV-HO	L0777-	32	-	75	5W-20	35 / 8	186 / 53	199	350°F / 177°C	380°F / 193°C	-50°F / -46°C
Low Pour	L0767-	22	-	75W	5W-20	25 / 7	126 / 46	210	315°F / 157°C	350°F / 177°C	-70°F / -57°C
Minus 70	L0769-	15	-	75W	5W-20	16 / 6	84 / 45	340	200°F / 93°C	220°F / 104°C	-70°F / -57°C

*Low Temp Hydraulic Oils are available in Jugs, Pails, 1/4 Drums & Drums. See page 15 for more information and the package part number suffix.

AGMA American Gear Manufacturers Association, ISO International Standards Organization

932110078

SYNXTREME HD-2: High Performance, Synthetic, Calcium Sulfonate Complex Grease.

A high performance, multi-purpose, synthetic, calcium sulfonate complex grease. Delivers outstanding shear stability, excellent anti-wear (AW) and extreme pressure protection. Highly water resistant. Superior oxidation resistance for long lasting protection. Excellent high and low temperature performance.

LUBRIPLATE PRODUCT	*PRODUCT PART NO.	NLGI GRADE	OIL VIS. cSt / SUS @40°C / 100°F	WORKED PENETRATION	ASTM DROP POINT	APPROX. COLD TEST	AW/EP	RUST/OXID. ADDITIVES	WATER RESISTANT	APPLICATIONS / COMMENTS
SYNX HD-2	L0401-	2	100 / 500	265 / 295	700°F / 371°C	-40°F / -40°C	AW/EP	YES	YES	Heavy-duty general-purpose grease.

*SYNXTREME HD-2 is available in Cartidges, Pails, 1/4 Drums & Drums. See page 15 for package part number suffix.

SYN-1600 Series: High Performance, Polyalphaolefin (PAO)-Based Synthetic Greases.

Manufactured with 100% polyalphaolefin (PAO) base fluids and thickened with lithium-complex, for superior oxidation stability, better wear protection and significantly better operating temperature ranges. Fortified with additives to prevent rust and corrosion and to reduce grease bleed.

LUBRIPLATE PRODUCT	*PRODUCT PART NO.	NLGI GRADE	OIL VIS. cSt / SUS @40°C / 100°F	WORKED PENETRATION	ASTM DROP POINT	APPROX. COLD TEST	AW/EP	RUST/OXID. ADDITIVES	WATER RESISTANT	APPLICATIONS / COMMENTS
SYN-1600	L0300-	0	218 / 1009	355 / 385	500°F / 260°C	-50°F / -46°C	AW/EP	YES	YES	Centralized greasing systems.
SYN-1601	L0301-	1	218 / 1009	310 / 340	500°F / 260°C	-50°F / -56°C	AW/EP	YES	YES	Multi-purpose, industrial applications.
SYN-1602	L0302-	2	446 / 2066	265 / 295	500°F / 260°C	-45°F / -43°C	AW/EP	YES	YES	Multi-purpose, heavy-duty applications.

*SYN-1600 Series Greases are available in Pails, 1/4 Drums & Drums, SYN-1601 & SYN-1602 are also available in Cartridges. See page 15 for package part number suffix.

1500 Series: Lithium Complex Greases.

These multi-purpose lubricants can withstand higher temperatures than traditional lithium greases. They provide high film strength, excellent shear stability, long lubricant life, and exceptional anti-wear properties. Available in four NLGI densities for a variety of applications. No. 1552 is NLGI GC-LB certified.

LUBRIPLATE PRODUCT	*PRODUCT PART NO.	NLGI GRADE	OIL VIS. cSt / SUS @40°C / 100°F	WORKED PENETRATION	ASTM DROP POINT	APPROX. COLD TEST	AW/EP	RUST/OXID. ADDITIVES	WATER RESISTANT	APPLICATIONS / COMMENTS
1500	L0163-	00	200 / 1100	400 / 430	-	-10°F / -23°C	AW/EP	YES	YES	Leaky Gear Cases. Trailer wheel bearings.
1550	L0164-	0	200 / 1100	355 / 385	450°F / 232°C	-10°F / -23°C	AW/EP	YES	YES	Centralized greasing systems.
1551	L0165-	1	200 / 1100	310 / 340	470°F / 243°C	-5°F / -21°C	AW/EP	YES	YES	Ind./const./mining equip.
1552	L0166-	2	200 / 1100	265 / 295	>500°F / 260°C	0°F / -18°C	AW/EP	YES	YES	Ind./const./mining equip., adverse conditions.

*1500 Series Greases are available in Pails, 1/4 Drums & Drums, No. 1551 & No. 1552 are also available in Cartridges. See page 15 for package part number suffix.

No. 1200-2: Heavy-Duty, General Purpose, Lithium Type Grease.

This is an excellent, heavy-duty, general purpose, lithium type grease for both industrial and automotive applications. It provides a high film strength, great shear stability, anti-wear and extreme pressure additives.

LUBRIPLATE PRODUCT	*PRODUCT PART NO.	NLGI GRADE	OIL VIS. cSt / SUS @40°C / 100°F	WORKED PENETRATION	ASTM DROP POINT	APPROX. COLD TEST	AW/EP	RUST/OXID. ADDITIVES	WATER RESISTANT	APPLICATIONS / COMMENTS
1200-2	L0102-	2	183 / 950	265 / 295	400°F / 204°C	-25°F / -32°C	AW/EP	YES	YES	General-purpose grease.

*1200-2 is available in Cartidges, Cans, Pails, 1/4 Drums & Drums. See page 15 for package part number suffix.

1240 Series: Lithium-Polymer Type, Viscous, Non-corrosive, Extreme Pressure Greases.

Highly water resistant and tacky, they are designed for applications where the grease is subjected to heavy pressure and shock loads. This series is available in 3 NLGI densities for a wide range of applications and temperatures.

LUBRIPLATE PRODUCT	*PRODUCT PART NO.	NLGI GRADE	OIL VIS. cSt / SUS @40°C / 100°F	WORKED PENETRATION	ASTM DROP POINT	APPROX. COLD TEST	AW/EP	RUST/OXID. ADDITIVES	WATER RESISTANT	APPLICATIONS / COMMENTS
1240	L0105-	0	237 / 1250	355 / 385	400°F / 204°C	0°F / -18°C	AW/EP	YES	YES	Centralized systems, const. industrial equip.
1241	L0104-	1	237 / 1250	310 / 340	400°F / 204°C	5°F / -15°C	AW/EP	YES	YES	Centralized or hand greasing.
1242	L0106-	2	237 / 1250	265 / 295	425°F / 218°C	15°F / -9°C	AW/EP	YES	YES	Heavy-duty construction equipment.

*1240 Series Greases are available in Cartidges, Cans, Pails, 1/4 Drums & Drums. See page 15 for package part number suffix.

No. 1444: Tacky, Aluminum Complex Type Grease.

Specifically formulated for heavy-duty construction and mining equipment. Excellent for slow to moderate speed bearings and chains that are subjected to heat, steam and water. NLGI GC-LB certified.

LUBRIPLATE PRODUCT	*PRODUCT PART NO.	NLGI GRADE	OIL VIS. cSt / SUS @40°C / 100°F	WORKED PENETRATION	ASTM DROP POINT	APPROX. COLD TEST	AW/EP	RUST/OXID. ADDITIVES	WATER RESISTANT	APPLICATIONS / COMMENTS
1444	L0227-	2	626 / 3300	265 / 295	500°F / 260°C	10°F / -12°C	AW/EP	YES	YES	Heavy-duty construction, mining equip.

*No. 1444 is available in Cartridges, Pails, 1/4 Drums & Drums. See page 15 for package part number suffix.

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No. 3000 and 3000-W: Tacky, Moly-Lithium Type, Extreme Pressure Greases.

Provides a durable, tenacious, adhesive film to protect against water, rust, and corrosive contaminants. 3000-W is for cold ambient temperatures.

LUBRIPLATE PRODUCT	*PRODUCT PART NO.	NLGI GRADE	OIL VIS. cSt / SUS @40°C / 100°F	WORKED PENETRATION	ASTM DROP POINT	APPROX. COLD TEST	AW/EP	RUST/OXID. ADDITIVES	WATER RESISTANT	APPLICATIONS / COMMENTS
3000	L0108-	2	237 / 1250	265 / 295	450°F / 232°C	0°F / -18°C	AW/EP	YES	YES	Heavy-duty, Construction/ mining equip.
3000-W	L0107-	1	60 / 315	310 / 340	375°F / 191°C	-30°F / -34°C	AW/EP	YES	YES	Heavy-duty equip. Cold weather conditions.

*3000 Series Greases are available in Cartidges, Cans, Pails, 1/4 Drums & Drums See page 15 for package part number suffix.

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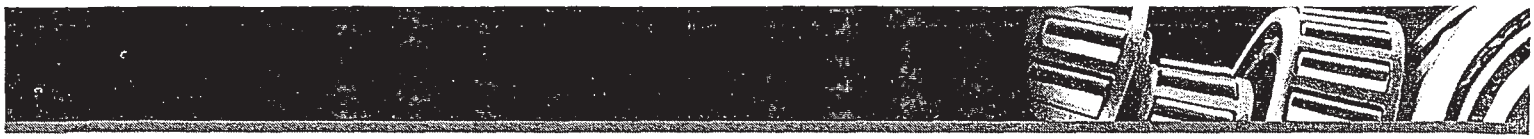

630 Series: Lithium Based Multi-purpose Greases.

These popular lithium type, greases are excellent for a wide range of lubrication demands, thus reducing the need to carry large grease inventories. All have high film strength, exceptional resistance to water, steam, and other adverse conditions. Available in 4 NLGI densities for a variety of applications.

LUBRIPLATE PRODUCT	*PRODUCT PART NO.	NLGI GRADE	OIL VIS. cSt/SUS @40°C/100°F	WORKED PENETRATION	ASTM DROP POINT	APPROX. COLD TEST	AW/EP	RUST/OXID. ADDITIVES	WATER RESISTANT	APPLICATIONS / COMMENTS
630-AAA	L0068-	0	151 / 800	355 / 385	360°F / 182°C	-10°F / -23°C	AW/EP	YES	YES	Centralized greasing systems.
630-AA	L0067-	1	135 / 750	310 / 340	380°F / 193°C	0°F / -18°C	AW/EP	YES	YES	Automatic dispensers,Centralized systems.
630-2	L0072-	2	135 / 750	265 / 295	380°F / 193°C	0°F / -18°C	AW/EP	YES	YES	Multi-purpose, general greasing, bearings.
630-A	L0066-	2.5	135 / 750	235 / 260	390°F / 199°C	10°F / -12°C	AW/EP	YES	YES	Cup type lube, water pumps

*630 Series Greases are available in Cartidges, Tubes, Cans, Pails, 1/4 Drums & Drums. See page 15 for package part number suffix.

730 Series: High Performance, Aluminum Complex Type Greases.

This series provides high load carrying ability and anti-wear protection with high resistance to water, steam, and other corrosive action. Available in 3 NLGI densities for a wide range of applications and temperatures. No. 730-2 is NLGI GC-LB certified.

LUBRIPLATE PRODUCT	*PRODUCT PART NO.	NLGI GRADE	OIL VIS. cSt/SUS @40°C/100°F	WORKED PENETRATION	ASTM DROP POINT	APPROX. COLD TEST	AW/EP	RUST/OXID. ADDITIVES	WATER RESISTANT	APPLICATIONS / COMMENTS
730-0	L0083-	0	151 / 800	355 / 385	465°F / 241°C	-10°F / -23°C	AW/EP	YES	YES	Centralized systems adverse conditions.
730-1	L0084-	1	151 / 800	310 / 340	540°F / 282°C	-10°F / -23°C	AW/EP	YES	YES	Industrial / const. equip. adverse conditions.
730-2	L0085-	2	151 / 800	265 / 295	560°F / 293°C	-10°F / -23°C	AW/EP	YES	YES	Industrial / const. equip. adverse conditions.

*730 Series Greases are available in Cans, Pails, 1/4 Drums & Drums, No. 730-2 is also available in Cartridges. See page 15 for package part number suffix.

930 Series: High Temperature, Bentone Type Greases.

Formulated for higher temperature applications. They are shear stable, multi-purpose greases for both plain and anti-friction bearings. This series works well up to 375°F / 191°C and for short intervals up to 400°F / 204°C Available in 4 NLGI densities for a wide range of applications.

LUBRIPLATE PRODUCT	*PRODUCT PART NO.	NLGI GRADE	OIL VIS. cSt/SUS @40°C/100°F	WORKED PENETRATION	ASTM DROP POINT	APPROX. COLD TEST	AW/EP	RUST/OXID. ADDITIVES	WATER RESISTANT	APPLICATIONS / COMMENTS
930-AAA	L0098-	0	167 / 900	355 / 385	NON-MELT	-10°F / -23°C	AW/EP	YES	YES	Centralized, enclosed gears, no seals.
930-AA	L0096-	1	135 / 750	310 / 340	NON-MELT	0°F / -18°C	AW/EP	YES	YES	High temperatures, automatic dispensers.
930-2	L0100-	2	135 / 750	265 / 295	NON-MELT	10°F / -12°C	AW/EP	YES	YES	Multi-purpose, high temperatures.
930-A	L0095-	2.5	135 / 750	235 / 260	NON-MELT	20°F / -7°C	AW/EP	YES	YES	High temperatures, grease cups.

*930 Series Greases are available in Cartidges, Tubes, Cans, Pails, 1/4 Drums & Drums. See page 15 for package part number suffix.

100 & 130 Series: Calcium Type Greases.

These water resistant greases are designed for plain bearings, cams, slides, and other light-duty applications where temperatures do not exceed 170°F. / 77°C.

LUBRIPLATE PRODUCT	*PRODUCT PART NO.	NLGI GRADE	OIL VIS. cSt/SUS @40°C/100°F	WORKED PENETRATION	ASTM DROP POINT	APPROX. COLD TEST	AW/EP	RUST/OXID. ADDITIVES	WATER RESISTANT	APPLICATIONS / COMMENTS
105	L0034-	0	58 / 300	355 / 385	170°F / 77°C	-30°F / -34°C	AW	YES	YES	Cams, slides, motor assembly.
107	L0036-	1	58 / 300	310 / 340	180°F / 82°C	-10°F / -23°C	AW	YES	YES	Non-staining concrete form release.
110	L0037-	2.5	58 / 300	235 / 260	190°F / 88°C	-10°F / -23°C	AW	YES	YES	Brake lubricant. Not for disc brakes.
115	L0040-	4	58 / 300	185 / 215	210°F / 99°C	10°F / -12°C	AW	YES	YES	Water pump lubricant.
130-AA	L0044-	1	135 / 750	310 / 340	190°F / 88°C	10°F / -12°C	AW/EP	YES	YES	Plain Bearings, chassis lube.
130-A	L0043-	2.5	135 / 750	235 / 260	200°F / 93°C	20°F / -7°C	AW/EP	YES	YES	Cams, guides, open gears.

*100 & 130 Series Greases are available in Tubes, Cans, Pails, 1/4 Drums & Drums. See page 15 for package part number suffix.

Multi-Purpose Greases For Special Conditions

High Temp: Multi-Purpose, High Temperature, Bentone Type Grease.

Multi-Purpose, for high temperature applications. Non-melt type, workable from 40°F / 4°C to 500°F / 260°C with frequent lube intervals.

LUBRIPLATE PRODUCT	*PRODUCT PART NO.	NLGI GRADE	OIL VIS. cSt/SUS @40°C/100°F	WORKED PENETRATION	ASTM DROP POINT	APPROX. COLD TEST	AW/EP	RUST/OXID. ADDITIVES	WATER RESISTANT	APPLICATIONS / COMMENTS
HIGH TEMP	L0161-	2	497 / 2600	265 / 295	NON-MELT	10°F / -12°C	AW	YES	YES	Multi-Purpose, high temp. applications

*HIGH TEMP is available in Cartidges, Cans, Pails, 1/4 Drums & Drums. See page 15 for package part number suffix.

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Low Temp: Multi-Purpose, Anhydrous Calcium Based Grease For Cold Temperatures.

Excellent multi-purpose low temperature grease. For cold temperature applications down to -60°F / -51°C.

LUBRIPLATE PRODUCT	*PRODUCT PART NO.	NLGI GRADE	OIL VIS. cSt/SUS @40°C/100°F	WORKED PENETRATION	ASTM DROP POINT	APPROX. COLD TEST	AW/EP	RUST/OXID. ADDITIVES	WATER RESISTANT	APPLICATIONS / COMMENTS
LOW TEMP	L0172-	1.5	16 / 90	290 / 320	280°F / 138°C	-60°F / -51°C	AW	YES	YES	Cold temps., multi-purpose, fifth wheels.

*LOW TEMP is available in Cartidges, Tubes, Cans, Pails, 1/4 Drums & Drums. See page 15 for package part number suffix.

NLGI - National Lubricating Grease Institute ASTM - American Society of Testing & Materials AW - Anti-Wear EP - Extreme Pressure

932110080

Greases For Special Applications / Conditions

MAG-1 & MAG-00: Lithium Polymer Type Greases For Wide Range Of Temperatures.

These multi-purpose, lithium polymer greases have a wide operating temperature range for variety of applications from -60°F / -51°C up to 300°F / 149°C.

LUBRIPLATE PRODUCT	*PRODUCT PART NO.	NLGI GRADE	OIL VIS. cSt / SUS @40°C / 100°F	WORKED PENETRATION	ASTM DROP POINT	APPROX. COLD TEST	AW/EP	RUST/OXID. ADDITIVES	WATER RESISTANT	APPLICATIONS / COMMENTS
MAG-1	L0189-	1	23 / 120	310/340	375°F / 191°C	-60°F / -51°C	AW/EP	YES	YES	Cold & wide temp. range, multi-purpose.
MAG-00	L0186-	00	23 / 120	SEMI-FLUID	340°F / 171°C	-60°F / -51°C	AW/EP	YES	YES	Centralized systems, leaking gearboxes.

*MAG-1 is available in Cartidges, Cans, Pails, 1/4 Drums & Drums. MAG-00 is available in Bottles, Jugs. Pails, 1/4 Drums & Drums. See page 15 for package part number suffix.

Aero: Lithium Based, Low Temperature Grease.

For cold temperature applications down to -60°F. / -51°C. Provides low-torque start-up capability, excellent corrosion and oxidation resistance and wide compatibility with metals, plastic, and rubber. Excellent for garage door mechanisms.

LUBRIPLATE PRODUCT	*PRODUCT PART NO.	NLGI GRADE	OIL VIS. cSt / SUS @40°C / 100°F	WORKED PENETRATION	ASTM DROP POINT	APPROX. COLD TEST	AW/EP	RUST/OXID. ADDITIVES	WATER RESISTANT	APPLICATIONS / COMMENTS
AERO	L0113-	1	19 / 100	310 / 340	350°F / 177°C	-60°F / -51°C	AW	YES	YES	Cold temps., trailer landing gears, garages.

*AERO is available in Tubes, Cans, Pails, 1/4 Drums, & Drums. See page 15 for package part number suffix.

No. 5555: Anhydrous Calcium, Semi-Fluid Type Lubricant.

This semi-fluid type lubricant is made for automatic lubricating systems operating in cold environments.

LUBRIPLATE PRODUCT	*PRODUCT PART NO.	NLGI GRADE	OIL VIS. cSt / SUS @40°C / 100°F	WORKED PENETRATION	ASTM DROP POINT	APPROX. COLD TEST	AW/EP	RUST/OXID. ADDITIVES	WATER RESISTANT	APPLICATIONS / COMMENTS
5555	L0109-	000	16 / 90	SEMI-FLUID	315°F / 157°C	-60°F / -51°C	AW	YES	YES	Automatic lube systems, light oil, cold temps.

*No. 5555 is available in Bottles, Jugs, Pails. 1/4 Drums, & Drums. See page 15 for package part number suffix.

EMB: Lithium Polymer Type, High Speed Electric Motor Bearing Grease.

Developed specifically for the lubrication of electric motor bearings, fans and other high speed grease type ball and roller bearings.

LUBRIPLATE PRODUCT	*PRODUCT PART NO.	NLGI GRADE	OIL VIS. cSt / SUS @40°C / 100°F	WORKED PENETRATION	ASTM DROP POINT	APPROX. COLD TEST	AW/EP	RUST/OXID. ADDITIVES	WATER RESISTANT	APPLICATIONS / COMMENTS
EMB	L0148-	2	100 / 500	265 / 295	390°F / 199°C	-20°F / -29°C	AW/EP	YES	YES	Electric motor bearings, fans, air handlers.

*EMB is available in Cartridges. Cans, Pails, 1/4 Drums & Drums. See page 15 for package part number suffix.

Poly HP-2: Polyurea-Thickened Type Grease.

Formulated with the highest quality paraffinic base oils available. Excellent for high-speed electric motor bearings and other industrial applications.

LUBRIPLATE PRODUCT	*PRODUCT PART NO.	NLGI GRADE	OIL VIS. cSt / SUS @40°C / 100°F	WORKED PENETRATION	ASTM DROP POINT	APPROX. COLD TEST	AW/EP	RUST/OXID. ADDITIVES	WATER RESISTANT	APPLICATIONS / COMMENTS
Poly HP-2	L0191-	2	128 / 650	265 / 295	500°F / 260°C	-	AW	YES	YES	Electric motor bearings.

*Poly HP-2 is available in Cartridges, Pails & 1/4 Drums. See page 15 for package part number suffix.

Greases For Open Gearing

Gear Shield Series: Lithium Based, Open Gear Grease.

Made for all types of open gears. Available in 4 formulas for a variety of conditions and temperatures. Gear Shield Extra Heavy is for adverse conditions.

LUBRIPLATE PRODUCT	*PRODUCT PART NO.	NLGI GRADE	OIL VIS. cSt / SUS @40°C / 100°F	WORKED PENETRATION	ASTM DROP POINT	APPROX. COLD TEST	AW/EP	RUST/OXID. ADDITIVES	WATER RESISTANT	APPLICATIONS / COMMENTS
Gear Shield	L0150-	1	237 / 1250	310 / 340	350°F / 177°C	-20°F / -29°C	AW	YES	YES	Open gears, normal conditions.
G.S. Heavy	L0151-	2	432 / 2000	265 / 295	365°F / 185°C	10°F / -12°C	AW	YES	YES	Open gears, normal conditions.
G.S. Low Temp	L0173-	2	58 / 300	265 / 295	400°F / 204°C	-20°F / -29°C	AW	YES	YES	Open gears, slides, fifth wheels, low temps.
G.S. X-Heavy	L0152-	2.5	432 / 2000	235 / 260	370°F / 188°C	20°F / -7°C	AW	YES	YES	Open gears, adverse conditions.

*Gear Shield Series Greases are available in Cans, Pails, 1/4 Drums & Drums. Gear Shield X-Heavy also available in Aerosol and Caulk Type Cartridges. See page 15 for package part number suffix.

FJK000065

No. 176: Inorganic / Organic, Open Gear Grease for Centralized Systems. No Solvents.

This adhesive, semi-fluid grease is for all types of open gears lubricated by centralized systems. Provides good pumpability without the use of harmful solvents.

LUBRIPLATE PRODUCT	*PRODUCT PART NO.	NLGI GRADE	OIL VIS. cSt / SUS @40°C / 100°F	WORKED PENETRATION	ASTM DROP POINT	APPROX. COLD TEST	AW/EP	RUST/OXID. ADDITIVES	WATER RESISTANT	APPLICATIONS / COMMENTS
No. 176	L0054-	00	313 / 1650	400 / 430	NON-MELT	5°F / -15°C	AW/EP	YES	YES	Open gears lubricated centralized systems.

*No. 176 is available in Pails, 1/4 Drums & Drums. See page 15 for package part number suffix.

NLGI - National Lubricating Grease Institute. ASTM - American Society of Testing & Materials. AW - Anti-Wear EP - Extreme Pressure

932110081

Petroleum Based, Gear, Bearing & Recirculating Oils

SPO Series: Extra-Duty Anti-Wear, Rust & Oxidation Inhibited (R&O) Gear and Bearing Oils.

SPO series of petroleum based oils is specifically designed for industrial applications such as gear cases, bearings, chains, machine ways, and general oiling. These tacky lubricants will provide anti-wear lubrication for high sliding action in worm gears. They are also excellent for bevel, helical, and spur gears. SPO Lubes can be used with silver alloy, copper, and copper alloy bearings. Excellent for use in high moisture and high temperature applications. Provides performance comparable to synthetic lubricants.

SPO-MG is a semi-synthetic lubricant formulated with a unique blend of synthetic hydrocarbon and mineral oil base stocks. This base stock combination results in exceptional thermal and oxidation stability, extended drain intervals and improved perfomance. Meets the viscosity requirements of SAE 80W and SAE 140 gear oils.

LUBRIPLATE PRODUCT	*PRODUCT PART NO.	ISO VIS. GRADE	AGMA NO.	SAE GEAR OIL NO.	SAE NO.	VIS. cSt @40°C/100°C	VIS. SUS @100°F/210°F	VIS. INDEX	FLASH POINT	FIRE POINT	POUR POINT
SPO-222	L0242-	68	2	80W	20W	63 / 9	317 / 55	109	415°F / 213°C	465°F / 241°C	-30°F / -34°C
SPO-233	L0243-	100	3	80W	30	91 / 11	464 / 63	103	450°F / 232°C	500°F / 260°C	-35°F / -37°C
SPO-244	L0244-	150	4	90	40	135 / 14	685 / 75	102	460°F / 238°C	525°F / 274°C	-25°F / -32°C
SPO-255	L0245-	220	5	90	50	200 / 19	1044 / 95	103	465°F / 241°C	560°F / 293°C	-10°F / -23°C
SPO-266	L0246-	320	6	90	60	280 / 23	1476 / 115	102	470°F / 243°C	570°F / 299°C	10°F / -12°C
SPO-277	L0247-	460	7	140	70	432 / 30	2260 / 148	101	475°F / 246°C	580°F / 304°C	15°F / -9°C
SPO-288	L0248-	680	8	250	-	628 / 38	3314 / 184	98	425°F / 218°C	525°F / 274°C	10°F / -12°C
SPO-299	L0249-	1000	8A	250	-	950 / 50	5100 / 245	99	450°F / 232°C	505°F / 263°C	10°F / -12°C
SPO-MG	L0252-	220	6	80W-140	60	237 / 25	1223 / 123	120	425°F / 218°C	465°F / 241°C	-25°F / -32°C

*SPO Series Oils are available in Bottles, Jugs, Pails, 1/4 Drums & Drums. See page 15 for package part number suffix.

APG Series: Heavy-Duty, Extreme Pressure (EP) Petroleum-Based Gear Oils.

These heavy-duty, extreme pressure type oils were developed to meet gear oil needs of most automotive, truck, heavy equipment and industrial gear boxes requiring an extreme pressure type oil. Meets military specification MIL-PRF-2105E and MIL-L-2105D and API categories GL-3, GL-4, GL-5, MT-1.

LUBRIPLATE PRODUCT	*PRODUCT PART NO.	ISO VIS. GRADE	AGMA NO.	SAE GEAR OIL NO.	SAE NO.	VIS. cSt @40°C/100°C	VIS. SUS @100°F/210°F	VIS. INDEX	FLASH POINT	FIRE POINT	POUR POINT
APG-75	L0116-	32	-	75W	10W	31 / 6	152 / 44	113	350°F / 177°C	365°F / 185°C	-55°F / -48°C
APG-80	L0117-	68	2 EP	80W	20	67 / 9	356 / 58	113	380°F / 193°C	440°F / 227°C	-35°F / -37°C
APG 80W-90	L0030-	100	3 EP	80W-90	40	124 / 15	650 / 84	121	380°F / 193°C	410°F / 210°C	-35°F / -37°C
APG-90	L0118-	150	5 EP	90	50	156 / 16	816 / 86	112	395°F / 202°C	440°F / 227°C	-20°F / -29°C
APG 80W-140	L0124-	320	6 EP	80W-140	60	248 / 25	1300 / 125	120	380°F / 193°C	410°F / 210°C	-25°F / -32°C
APG-140	L0119-	460	7 EP	85W-140	70	410 / 31	2220 / 152	107	405°F / 207°C	440°F / 227°C	0°F / -18°C
APG-250	L0120-	680	8 EP	250	-	701 / 42	3700 / 203	100	390°F / 199°C	450°F / 232°C	5°F / -15°C

*APG Series Oils are available in Bottles, Jugs, Pails, 1/4 Drums & Drums, APG 90 is also available in Tubes. See page 15 for package part number suffix.

CP-8A: Compounded (CP) Petroleum-Based Gear Oil.

This non-EP oil is manufactured with acidless tallow as required to meet AGMA specification 8A Comp. It is recommended for use in cone drives and double-enveloping worm gear drives.

LUBRIPLATE PRODUCT	*PRODUCT PART NO.	ISO VIS. GRADE	AGMA NO.	SAE GEAR OIL NO.	SAE NO.	VIS. cSt @40°C/100°C	VIS. SUS @100°F/210°F	VIS. INDEX	FLASH POINT	FIRE POINT	POUR POINT
CP-8A	L0141-	1000	8A COMP	250	-	950 / 47	4950 / 230	95	550°F / 288°C	600°F / 316°C	35°F / 2°C

*CP-8A is available in Pails, 1/4 Drums & Drums. See page 15 for package part number suffix.

Machine Tool Oils: Petroleum-Based Machine Oils.

FJK000066

Compounded to impart a unique load carrying film, exceptional lubricity, and anti-friction properties not found in conventional oils of the same viscosity.

LUBRIPLATE PRODUCT	*PRODUCT PART NO.	ISO VIS. GRADE	AGMA NO.	SAE GEAR OIL NO.	SAE NO.	VIS. cSt @40°C/100°C	VIS. SUS @100°F/210°F	VIS. INDEX	FLASH POINT	FIRE POINT	POUR POINT
NO. 0	L0000-	7-10	-	-	5W	9 / -	56 / 34	-	275°F / 135°C	295°F / 146°C	-60°F / -51°C
NO. 1	L0002-	22	-	-	10W	22 / -	115 / 38	-	345°F / 174°C	360°F / 182°C	-50°F / -46°C
NO.2	L0003-	46	1	75W	20	45 / -	228 / 45	96	365°F / 185°C	385°F / 196°C	-30°F / -34°C
NO. 3V	L0009-	68	2	80W	20	62 / -	326 / 48	98	380°F / 193°C	395°F / 202°C	-25°F / -32°C
NO. 3	L0005-	100	3	80W	30	92 / -	490 / 58	98	390°F / 199°C	410°F / 210°C	-25°F / -32°C
NO. 4	L0011-	150	4	90	40	162 / 13	854 / 72	98	420°F / 216°C	450°F / 232°C	-20°F / -29°C
NO. 8	L0014-	460	7	140	70	432 / 28	2300 / 142	90	435°F / 224°C	515°F / 268°C	0°F / -18°C

*Machine Tool Oils are available in Bottles, Jugs, Pails, 1/4 Drums & Drums. See page 15 for package part number suffix.

AGMA-American Gear Manufacturers Association. ISO-International Standards Organization.

932110082

Specialty Greases

X-357: A special extreme pressure moly-fortified lubricant that penetrates and adheres, water resistant. Use on pintle hooks, slide axles, open gears, fifth wheels. Product Part No. L0149-. See page 15 for packaging information.

NO. 777: This special grease lubricant has been approved by Ford Motor Co. specification ESF-M1C-26-A for use as a starter motor shaft lubricant. Also approved for starter drives on Evinrude / Johnson outboards. Product Part No. L0081-. See page 15 for packaging information.

NO. 105 Motor Assembly Grease: A smooth, light bodied, water-repellent grease that is applied to engine bearings, cylinder walls and other moving internal engine parts. Provides lubrication and protects parts from scuffing and scoring during initial start up before the motor oil circulates. Prevents rust on newly machined engine parts. Will not clog filters or oil lines. Product Part No. L0034-. See page 15 for packaging information.

NO. 107 Concrete Form Release: This soft grease can easily be sprayed on form contact surfaces providing immediate release once the concrete is set. White in color, it will not stain the casting. Product Part No. L0036-. See page 15 for packaging information.

DS-ES Electric Switch Lubricant: Developed for the lubrication of electrical switch contacts. Used extensively in the automotive industry for switches, sockets, and wiring harness connectors. Excellent oxidation resistance and compatibility with metal, plastic and rubber. Product Part No. L0137-. See page 15 for packaging information.

GR-132 Portable Tool Grease: A light viscosity oil combined with a lithium combination thickener makes GR-132 ideal for applications where fluid friction must be kept to a minimum. Ideal for the small gear cases in portable tools. Product Part No. L0158-. See page 15 for packaging information.

Brick Grease: This NLGI No. 6 grade sodium-type grease was developed for the lubrication of open slot and open well type bearings where the brick grease rides directly on the bearing shaft. Package / case 4/10 lb. Bricks 43 lbs. net. Part No. L0131-038.

Lithium Brick Grease: This NLGI No. 6 grade lithium grease is recommended for open slot and open well type bearings where the brick grease rides directly on the bearing shaft. Package / case 4/10 lb. Bricks, Part No. L0132-038.

5 JK000067

Specialty Oils & Fluids

Air Tool Lubricant: Designed for both rotary and reciprocating types of air tools such as hammers, impact wrenches, air motors, grinders, reamers and drills. Proven excellent air line lubricant, used effectively on lift cylinders of can fillers in breweries, bottling plants. Removes gumming and sludge. Product Part No. L0713-.

Jack Oil: A heavy-duty, high pressure hydraulic oil, anti-wear and anti-corrosion additives. Product Part No. L0768-.

Bar & Chain Oil: Formulated with special anti-wear additives to provide maximum protection to the bar and chain of all makes of chain saws. SAE grade 20. Good adhesion properties provide excellent resistance to "throw off" action. Part No. L0720-.

Chain & Cable Fluid / Chain & Cable Heavy: Superior penetrating oils that clean and lubricate without gumming. Ideal for wire rope, chains, cables, hinges, springs, slides and other moving metal parts. Protects bright work. Excellent oils to loosen rusty nuts and bolts. Ideal for tapping and drilling. Part Nos. L0135- and L0136-. See page 15 for packaging information and package part number suffix.

Super Chain Oil: A heavy polymer, tenacious, high flash point oil containing micro-fine graphite. Excellent for bakery ovens, drying ovens where temperatures do not exceed 450°F. / 232°C. Works well on floor chain conveyors, car wash lines, assembly lines. Flash point 520°F. / 271°C. Fire point 600°F. / 316°C. Product Part No. L0857-. See page 15 for packaging information and package part number suffix.

Synthetic Worm Gear Lubricant: This high performance, ISO 460 grade, synthetic gear lubricant is recommended for all types of worm gear reducers. Product Part No. L0981-. See page 15 for packaging information and package part number suffix.

Syn Flush: This premium quality, pure synthetic fluid is designed to clean and dissolve varnish deposits in air compressors while the compressor is in operation. It is compatible with petroleum/mineral oils as well as all Lubriplate Synthetic Compressor Fluids. Recommended for flushing compressors converting from petroleum base oils to synthetic fluids. SYNFLUSH can be used in its pure form in rotary screw air compressors up to 500 hours. Part No. L0962-.

Heat Transfer Oils: These high flash and fire point oils are designed for exceptional heat transfer properties. For use on oil type heat exchangers in asphalt plants, roofer tar kettles, curing machines. Flash point 525°F. / 274°C. Fire Point 600°F. / 316°C. Available in ISO viscosity grades 32, Part No. L0757-, 68, Part No. L0751-, and 150 Part No. L0750-. Available in Pails & Drums. See page 15 for package part number suffix.

Rock Drill Oils 10R, 30R: For all types of rock drills, air hammers and other pneumatic tools used in the construction and mining industries. Available in SAE 10W, Part No. L0847-, and 30, Part No. L0848-, with the lighter weight oil for cold weather conditions. Use SPO-255 for SAE 50 rock drill oil.

Mist Oil: Designed to meet optimum requirements of mist applicators or fogging oil systems. The use of special oils and additives assures proper misting qualities. Mist oil provides superior wear protection against heavy loads. For machine tools, grinders, conveyor systems. SAE 30. Part No. L0177-.

Vacuum Pump Oil & Vacuum Pump Oil Light: High performance, non-detergent mineral oils recommended for most rotary vane and rotary lobe vacuum pumps. They are designed to alleviate the sludge, carbon deposits and contamination problems commonly found in industrial vacuum pumps. Lubriplate Vacuum Pump Oil Light is recommended for vacuum pumps typically associated with delicate instrumentation. Vacuum Pump Oil is SAE-30 / ISO-100 grade. Part No. L0945-. Vacuum Pump Oil Light is SAE-10 / ISO-32 grade. Part NO. L0944-.

HO Special Hydraulic Oils: HO-32, HO-46* and HO-68 meet the requirements and are approved by Abex-Denison HF-0 and HF-2, they are also accepted by Vickers specification M-2950-S. *Lubriplate HO-46 is approved by Cincinnati-Milacron under Specification P-70. Product Part Nos. HO-32, L0770-, HO-46, L0771-, HO-68, L0772-. See page 15 for packaging information.

932110083

Synthetic Food Machinery Grade Fluids / Class H-1*

Certified Kosher Pareve · NSF H-1 REGISTERED

SFGO Ultra Series: Polyalphaolefin (PAO)-Based, High-Performance Fluids.

Formulated with 100% PAO synthetic base fluids for a variety of demanding applications. They are outstanding lubricants for use under severe conditions subject to extremely high or low temperatures. They exhibit outstanding oxidation resistance and thermal stability capabilities. Recommended for air compressors, hydraulic systems, bearings, gearboxes, pumps and chains which experience very demanding conditions. Meets FDA 21 CFR 178.3570 and FDA 21 CFR 172.882 for applications where incidental contact with the edible product may occur. SFGO Ultra 220 and 460 pass 12 stages of the FZG Test.

LUBRIPLATE PRODUCT	*PRODUCT PART NO.	ISO VIS. GRADE	AGMA NO.	SAE GEAR OIL NO.	SAE NO.	VIS. cSt @40°C/100°C	VIS. SUS @100°F/210°F	VIS. INDEX	FLASH POINT	FIRE POINT	POUR POINT
SFGO Ultra-7	L0912-	7	-	-	5W	7 / 2	51 / 34	137	320°F / 160°C	350°F / 176°C	-75°F / -60°C
SFGO Ultra-15	L0930-	15	-	-	5W	16 / 4	89 / 40	129	380°F / 93°C	410°F / 210°C	-70°F / -57°C
SFGO Ultra-22	L0931-	22	-	-	5W	20 / 4	106 / 41	128	405°F / 207°C	430°F / 221°C	-65°F / -54°C
SFGO Ultra-32	L0915-	32	-	75	10	31 / 6	160 / 46	130	465°F / 241°C	515°F / 268°C	-70°F / -57°C
SFGO Ultra-46	L0916-	46	1	80	20	45 / 8	220 / 52	134	480°F / 249°C	520°F / 271°C	-65°F / -54°C
SFGO Ultra-68	L0917-	68	2	80	30	67 / 10	325 / 59	125	495°F / 257°C	545°F / 285°C	-60°F / -51°C
SFGO Ultra-100	L0983-	100	3	85	40	105 / 16	556 / 77	158	515°F / 268°C	560°F / 293°C	-65°F / -54°C
SFGO Ultra-150	L0984-	150	4	90	50	151 / 20	762 / 97	156	510°F / 265°C	555°F / 291°C	-60°F / -51°C
SFGO Ultra-220	L0985-	220	5	90	50	216 / 26	1088 / 128	155	510°F / 265°C	555°F / 291°C	-50°F / -46°C
SFGO Ultra-320	L0986-	320	6	140	60	312 / 34	1557 / 161	155	505°F / 263°C	550°F / 288°C	-50°F / -46°C
SFGO Ultra-460	L0987-	460	7	140	-	446 / 45	2143 / 211	156	505°F / 263°C	550°F / 288°C	-45°F / -43°C
SFGO Ultra-680	L0988-	680	8	250	-	623 / 57	3289 / 275	157	500°F / 260°C	545°F / 285°C	-45°F / -43°C
SFGO Ultra-1000	L0989-	1000	-	-	-	950 / 77	4900 / 372	157	500°F / 260°C	545°F / 285°C	-35°F / -37°C

*SFGO Ultra Fluids are available in Jugs, Pails, 1/4 Drums & Drums. See page 15 for package part number suffix.

SFGO Series: Polyalphaolefin (PAO)-Based, Multi-Purpose Fluids.

The original SFGO fluids, ISO viscosity grades 100 through 1500 are still available for less stressful applications which require only a PAO/Polymer combination synthetic fluid.

SYN-H1-220: Polyalkylene Glycol Based Synthetic Chain, Bearing and Gearbox Lubricant.

Specifically designed for use where elevated temperatures exist and the need for a food grade lubricant is required. For chain applications where air temperatures exceed 400°F./ 204°C and up to 600°F./ 316°C. when not exposed to open flame or ignition source. Passes 12 stages of FZG test.

LUBRIPLATE PRODUCT	*PRODUCT PART NO.	ISO VIS. GRADE	AGMA NO.	SAE GEAR OIL NO.	SAE NO.	VIS. cSt @40°C/100°C	VIS. SUS @100°F/210°F	VIS. INDEX	FLASH POINT	FIRE POINT	POUR POINT
SYN-H1-220	L0779-	220	5	90	-	285 / 41	1310 / 188	206	540°F / 282°C	550°F / 288°C	-20°F / -29°C

*SYN-H1-220 Fluid is available in Pails & Drums. See page 15 for package part number suffix.

RCO-68: Polyalphaolefin (PAO)-Based, Food Machinery Grade, Refrigeration Compressor Fluid.

Formulated for use in refrigeration compressor systems where a NSF H-1 Registered, food machinery grade lubricant is required.

LUBRIPLATE PRODUCT	*PRODUCT PART NO.	ISO VIS. GRADE	AGMA NO.	SAE GEAR OIL NO.	SAE NO.	VIS. cSt @40°C/100°C	VIS. SUS @100°F/210°F	VIS. INDEX	FLASH POINT	FIRE POINT	POUR POINT
RCO-68	L0818-	68	2	80	30	67 / 10	325 / 59	125	495°F / 257°C	545°F / 285°C	-60°F / -51°C

*RCO-68 Fluid is available in Pails & Drums. See page 15 for package part number suffix.

Synthetic Food Machinery Grade Greases / Class H-1*

Certified Kosher Pareve · NSF H-1 REGISTERED

SYNXTREME FG-2: Synthetic, Calcium Sulfonate Complex, Food Machinery Grade Grease.

A NSF H-1 registered, high performance, multi-purpose, synthetic, food machinery grade grease. Provides long lasting, anti-wear and extreme pressure protection. It is highly resistant to water and caustic solution wash downs. Provides excellent high and low temperature performance.

LUBRIPLATE PRODUCT	*PRODUCT PART NO.	NLGI DENSITY	OIL VIS. cSt / SUS @40°C / 100°F	WORKED PENETRATION	ASTM DROP POINT	APPROX COLD TEST	AW / EP	RUST & OXID. ADDITIVES	WATER RESISTANT
SYNXTREME FG-2	L0305-	2	100 / 500	265 / 295	700°F / 371°C	-40°F / -40°C	AW/EP	YES	YES

*SYNXTREME FG-2 is available in Cartidges, Pails, 1/4 Drums & Drums. See page 15 for package part number suffix.

F.IK000068

SFL Series: Multi-Purpose, Synthetic, Aluminum Complex, Food Machinery Grade Greases.

This series provides an exceptionally wide operating temperature range, high shear stability, excellent water resistance, and load carrying properties. For use in freezers and other cold temperature applications or in areas subject to both cold and elevated temperatures. Available in 4 densities.

LUBRIPLATE PRODUCT	*PRODUCT PART NO.	NLGI DENSITY	OIL VIS. cSt / SUS @40°C / 100°F	WORKED PENETRATION	ASTM DROP POINT	APPROX COLD TEST	AW / EP	RUST & OXID. ADDITIVES	WATER RESISTANT
SFL-00	L0195-	00	39 / 200	400 / 430	400°F / 204°C	-60°F / -51°C	AW	YES	YES
SFL-0	L0196-	0	39 / 200	355 / 385	425°F / 218°C	-60°F / -51°C	AW	YES	YES
SFL-1	L0197-	1	39 / 200	310 / 340	450°F / 232°C	-60°F / -51°C	AW	YES	YES
SFL-2	L0198-	2	219 / 1070	265 / 295	500°F / 260°C	-25°F / -32°C	AW	YES	YES

*SFL Series Greases are available in Cartidges, Pails, 1/4 Drums & Drums. See page 15 for package part number suffix.

*Lubriplate H-1 Class Lubricants are manufactured with ingredients that comply with FDA 21 CFR 178.3570 for lubricants with incidental contact with the edible product. NSF H-1 Registered.

932110084

USP Mineral Oil-Based Food Machinery Grade Oils / Class H-1*

Certified Kosher Pareve

NSF H-1 REGISTERED

FMO-AW Series: Multi-Purpose, Food Grade USP White Mineral Oils.

For use where a Class H-1 oil is required. Manufactured in nine ISO grades for a variety of applications. Anti-wear fortified. NOTE: FMO-350AW is also available in a red and orange color which helps in leak detection. The original FMO Series products without the anti-wear additive system are still available.

LUBRIPLATE PRODUCT	*PRODUCT PART NO.	ISO VIS. GRADE	AGMA NO.	SAE GEAR OIL NO.	SAE NO.	VIS. cSt @40°C/100°C	VIS. SUS @100°F/210°F	VIS. INDEX	FLASH POINT	FIRE POINT	POUR POINT
FMO-85 AW	L0880-	15-22	-	-	5W	19 / 4	103 / 40	112	335°F / 168°C	365°F / 185°C	-45°F / -43°C
FMO-150 AW	L0879-	32	-	-	10W	32 / 5	162 / 43	71	370°F / 188°C	415°F / 213°C	-30°F / -34°C
FMO-200 AW	L0881-	46	1	75	10	41 / 6	208 / 48	111	375°F / 191°C	405°F / 207°C	-25°F / -32°C
FMO-350 AW	L0882-	68	2	80	20	68 / 8	348 / 56	103	435°F / 224°C	490°F / 254°C	-10°F / -23°C
FMO-500 AW	L0883-	100	3	80	30	99 / 11	523 / 66	102	495°F / 257°C	545°F / 285°C	0°F / -18°C
FMO-900 AW	L0884-	150	4	90	40	160 / 15	856 / 83	99	450°F / 232°C	540°F / 282°C	0°F / -18°C
FMO-1100 AW	L0886-	220	5	90	50	210 / 19	1126 / 97	100	440°F / 227°C	510°F / 266°C	5°F / -15°C
FMO-1700 AW	L0887-	320	6	140	60	324 / 25	1730 / 120	95	430°F / 221°C	505°F / 263°C	5°F / -15°C
FMO-2400 AW	L0885-	460	7	140	70	456 / 30	2350 / 142	93	425°F / 218°C	505°F / 263°C	10°F / -12°C
FMO-3800 AW	L0888-	680	8	250	-	690 / 40	3864 / 198	96	420°F / 216°C	485°F / 252°C	15°F / -9°C

*FMO Series Oils are available in Bottles, Jugs, Pails, 1/4 Drums & Drums. See page 15 for more information and package part number suffix.

Food Grade Cooker Oil: This zinc free oil is designed for use in the Manzel Lubricators and Micro-valve systems found on most cookers and sterilizers used in canning operations and other similar applications involving high temperature and high humidity conditions. Unique additives provide high load-carrying ability and corrosion protection.

STO-FG Oil: Special, non-corrosive oil for lubricating stirrups on bottle filling machines. Class H-1.

PM 500 White Oil: This oil contains emulsifying agents that wet the lubricated surfaces and provides an oily film for the moving parts. Used very successfully on pear machines.

FP-150 & FP-150L: These clear, tacky, adhesive Class H-1 oils resist heavy water washdown and steam. For helical gearboxes, chains, linkages, cams, and slides and wherever a dripless, adhesive fluid lubricant is desired.

Pure Flush: This lubricating, flushing and cleansing oil is to be used along with the existing lubricant to clean equipment without dismantling. It can be used to clean and flush bearings, gear cases, hydraulic systems, centralized lubricating systems, air lines, chains and air tools. It is fully compatible with petroleum based lubricants and most petroleum compatible synthetics. Class H-1.

LUBRIPLATE PRODUCT	*PRODUCT PART NO.	ISO VIS. GRADE	AGMA NO.	SAE GEAR OIL NO.	SAE NO.	VIS. cSt @40°C/100°C	VIS. SUS @100°F/210°F	VIS. INDEX	FLASH POINT	FIRE POINT	POUR POINT
FG Cooker Oil	L0701-	150	4	90	40	155 / 16	795 / 82	104	475°F / 246°C	525°F / 274°C	5°F / -15°C
STO-FG	L0863-	68	2	80	20	67 / 13	340 / 70	105	425°F / 218°C	485°F / 252°C	-15°F / -26°C
PM-500	L0192-	100	3	80	30	101 / 11	560 / 64	86	420°F / 216°C	485°F / 252°C	-5°F / -21°C
FP-150	L0735-	460	7	140	70	367 / 25	1950 / 127	93	395°F / 202°C	455°F / 235°C	0°F / -18°C
FP-150L	L0736-	100	3	80	30	103 / 12	510 / 67	108	410°F / 210°C	450°F / 232°C	-5°F / -21°C
Pure Flush	L0816-	-	-	-	-	7 / 2	50 / 32	-	210°F / 99°C	220°F / 104°C	-35°F / -37°C

*See page 15 for the package part number suffix which identifies the available packaging. Not all products are available in every package size.

Food Machinery Oils / Class H-2**

No. 72-C Oil: Class H-2** oil, for use as a steam peeler oil as it provides an oiliness film which prevents chatter. FJK000069

No. 78 Cooker Oil: Class H-2** oil, for use in Manzel lubricators for A-B cookers and sterilizers, FMC cookers. Corrosion and oxidation resistant.

STO-4 Oil: Special, non-corrosive oil for lubricating stirrups on bottle filling machines. Class H-2.**

AS-148 Oil: An ashless oil for bearings, gears and cams where high temps are encountered. For Manzel lubricators and Angelus Seamers. Class H-2.**

LUBRIPLATE PRODUCT	*PRODUCT PART NO.	ISO VIS. GRADE	AGMA NO.	SAE GEAR OIL NO.	SAE NO.	VIS. cSt @40°C/100°C	VIS. SUS @100°F/210°F	VIS. INDEX	FLASH POINT	FIRE POINT	POUR POINT
72-C	L0703-	150	4	90	40	151 / 13	750 / 75	110	490°F / 254°C	520°F / 271°C	15°F / -9°C
78	L0700-	150	4	90	40	164 / 15	850 / 82	99	475°F / 246°C	565°F / 296°C	-20°F / -29°C
STO-4	L0860-	46	1	75	20	45 / -	255 / 47	70	320°F / 160°C	370°F / 188°C	-30°F / -34°C
AS-148	L0715-	220	5	90	50	200 / 18	1041 / 91	97	470°F / 243°C	525°F / 274°C	10°F / -12°C

*See page 15 for the package part number suffix which identifies the available packaging. Not all products are available in every package size.

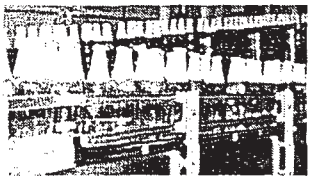
**H-2 Class lubricants may be used as a lubricant or anti-rust agent on equipment in which there is no possibility of the lubricated part contacting the edible product.

USP Mineral Oil-Based Food Grade Greases / Class H-1*

Certified Kosher Pareve

NSF H-1 REGISTERED

FGL Series: High Performance, Multi-Purpose Food Grade Greases.



Designed to meet the demands of food and beverage industry plant engineers who want Class H-1 greases to totally replace H-2 greases. Fortified with anti-wear, anti-rust and anti-corrosion additives which combine to yield excellent shear stability, load carrying capability and resistance to water and caustic wash down. Available in four NLGI densities for a variety of applications. FGL-CC is for centralized/automatic lubrication systems on high speed can closing equipment.

LUBRIPLATE PRODUCT	*PRODUCT PART NO.	GREASE TYPE	NLGI DENSITY	OIL VIS. cSt/SUS @40°C/100°F	WORKED PENETRATION	ASTM DROP POINT	APPROX COLD TEST	AW / EP	RUST & OXID. ADDITIVES	WATER RESISTANT
FGL-00	L0226-	ALUMINUM COMPLEX	00	120 / 550	400 / 430	410°F / 210°C	-5°F / -21°C	AW	YES	YES
FGL-CC	L0229-	ALUMINIUM COMPLEX	0/00	120 / 550	370 / 410	450°F / 232°C	0°F / -18°C	AW	YES	YES
FGL-0	L0230-	ALUMINUM COMPLEX	0	120 / 550	355 / 385	435°F / 224°C	0°F / -18°C	AW	YES	YES
FGL-1	L0231-	ALUMINUM COMPLEX	1	120 / 550	310 / 340	460°F / 238°C	0°F / -18°C	AW	YES	YES
FGL-2	L0232-	ALUMINUM COMPLEX	2	160 / 850	265 / 295	515°F / 268°C	10°F / -12°C	AW	YES	YES

*FGL Series greases are available in Cans, Pails, 1/4 Drums & Drums, FGL-1 & FGL-2 are available in Cartridges. See page 15 for more information and package part number suffix.

FML Series: Multi-Purpose, Food Grade Greases.

These white, multi-purpose greases have been leaders in the food processing industry for years.

LUBRIPLATE PRODUCT	*PRODUCT PART NO.	GREASE TYPE	NLGI DENSITY	OIL VIS. cSt/SUS @40°C/100°F	WORKED PENETRATION	ASTM DROP POINT	APPROX COLD TEST	AW / EP	RUST & OXID. ADDITIVES	WATER RESISTANT
FML-0	L0143-	ANHYDROUS CALCIUM	0	144 / 750	355 / 385	280°F / 138°C	0°F / -18°C	AW	YES	YES
FML-1	L0144-	ANHYDROUS CALCIUM	1	144 / 750	310 / 340	285°F / 141°C	0°F / -18°C	AW	YES	YES
FML-2	L0145-	ANHYDROUS CALCIUM	2	144 / 750	265 / 290	285°F / 141°C	0°F / -18°C	AW	YES	YES

*FML Series greases are available in Cans, Pails, 1/4 Drums & Drums, FML-2 is available in Cartridges. See page 15 for more information and package part number suffix.

PURE TAC: Tacky, Adhesive Food Grade Grease.

This tacky, adhesive, highly water resistant, Class H-1 grease is designed for applications subjected to chemically treated water, heat and steam. For all types of medium to slow speed bearings, open gears and hydrostatic cooker chains.

LUBRIPLATE PRODUCT	*PRODUCT PART NO.	GREASE TYPE	NLGI DENSITY	OIL VIS. cSt/SUS @40°C/100°F	WORKED PENETRATION	ASTM DROP POINT	APPROX COLD TEST	AW / EP	RUST & OXID. ADDITIVES	WATER RESISTANT
PURE TAC	L0236-	ALUMINIUM COMPLEX	2	1187 / 6500	265 / 295	520°F / 271°C	25°F / -4°C	AW	YES	YES

*PURE TAC is available in Cartridges, Pails, 1/4 Drums & Drums. See page 15 for more information and package part number suffix.

CLEARPLEX-2: Clear, Multi-Purpose Food Grade Grease.

This Aluminum Complex thickened, H-1 class grease is engineered for use in plain and anti-friction bearings in the food-processing and beverage processing industry. Contains non zinc-oxide anti-wear additive.

LUBRIPLATE PRODUCT	*PRODUCT PART NO.	GREASE TYPE	NLGI DENSITY	OIL VIS. cSt/SUS @40°C/100°F	WORKED PENETRATION	ASTM DROP POINT	APPROX COLD TEST	AW / EP	RUST & OXID. ADDITIVES	WATER RESISTANT
CLEARPLEX-2	L0351-	ALUMINIUM COMPLEX	2	104 / 500	265 / 295	450°F / 232°C	10°F / -12°C	AW	YES	YES

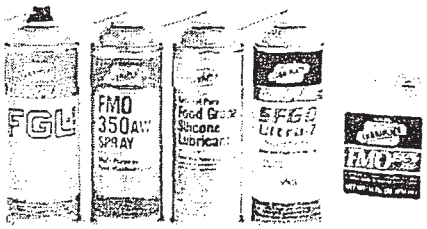
*CLEARPLEX-2 is available in Cartridges, Pails, 1/4 Drums & Drums. See page 15 for more information and package part number suffix.

Food Grade Spray Lubricants / Class H-1*

Certified Kosher Pareve

NSF H-1 REGISTERED

FJK000070



FGL-1 Spray: Class H-1 lubricant in handy easy to use 11 OZ. / 312 g. spray can. Quick and clean applications. Fortified with anti-wear, anti-rust, and anti-corrosion additives. Part No. L0231-063

Super FML-2 Spray: A Class H-1 white lubricant in handy, easy to use spray can. For use in food processing operations where a Class H-1 lubricant is required. Part No. L0145-063.

FMO-85-AW Spray: A multi-purpose Class H-1 oil. Packed in 14 OZ. / 414 ml hand pump, non-aerosol spray bottle. Part No. L0880-067.

FMO-350-AW Spray: A Class H-1 food machinery oil, in easy to apply spray can. For use where a Class H-1 oil is required. Part No. L0882-063.

Food Grade Silicone Lubricant: A multi-purpose, silicone lubricant for use on bottling, dairy and food processing machinery. For slides, O-rings, rubber seals and general lubrication. Part No. L0723-063.

SFGO Ultra-7 Spray: A multi-purpose, synthetic fluid lubricant, for use on bottling, dairy and food processing machinery. For chains, slides and general lubrication. Part No. L0912-063.

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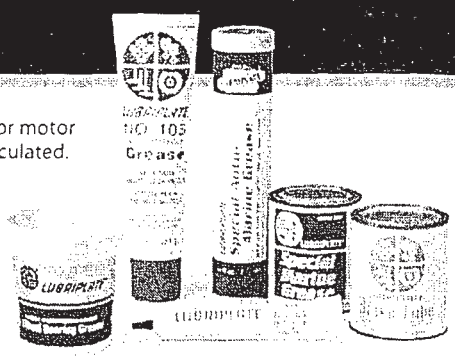
*H-1 Class Lubricants are manufactured with ingredients that comply with FDA regulation 21 CFR 178.3570 for lubricants with incidental contact with the edible product.

Automotive Lubricants



No. 105 Motor Assembly Grease: A smooth light-bodied grease made especially for motor assembly. Prevents "Dry Start." Provides lubrication during initial start up before the motor oil has circulated. Protects freshly machined engine parts from rust and corrosion. Part No. L0034-094.

No. 105 "B" Tube General Purpose Grease: The original white grease in handy tube. Ideal for locks, latches, hinges, wiper mechanisms, speedometer cables, or anywhere you need a light-bodied, grease type lubricant. Also excellent for motor assembly. Part No. L0034-086.

Wheel Bearing Grease: A superior, long lasting, water resistant, extreme pressure, wheel bearing grease. N.L.G.I. GC-LB certified. Available in 16 oz. Plastic Tubs, Part No. L0220-004, as well as 6 lb Cans, Pails, 1/4 Drums and Drums. See page 15 for package part number suffix.

Special Auto Marine Grease: A super multi-purpose, high temperature, water repellent, extreme pressure grease for automotive and marine uses. Available in 14 oz. Cans Part No. L0206-001 and 14.5 oz. Cartridges Part No. L0206-098.

No. 110 Brake Lubricant: This water repellent grease is designed for the contact points where the brake shoes rest on the backing plate and for the automatic adjusters inside the brake assembly. Product Part No. L0037- Available in Cans, Pails, 1/4 Drums and Drums. See page 15 for package part number suffix.

Spray Lubricants: See page 15 for information.

Motor Oils & Transmission Fluids

Super GPO Heavy-Duty Motor Oils: Designed for naturally aspirated and turbo-charged diesel, gasoline and LP gas engines. Ideal for mixed fleets, construction equipment, trucks and automobiles. API service CG-4, CF-4 (15W-40 & 10W-30), CF, CF-2, CE, CD, SH, SJ, MIL-L-2104G and MIL-L-46152E. SAE 30, Pt. No. L0749-, SAE 40, Pt. No. L0752-, SAE 10W-30, Pt. No. L0754-, SAE 15W-40, Pt. No. L0753-.

Super HDS Motor Oil: Fully detergent motor oils for diesel and gasoline engines. Protects against oxidation, corrosion, foaming, sludge and wear. For service SJ / CF, MIL-L-46152E. SAE 10W, Pt. No. L0788-, SAE 20-20W, Pt. No. L0789-, SAE 30, Pt. No. L0791-, SAE 40, Pt. No. L0792-, SAE 50, Pt. No. L0793-.

Super 345, SAE 5W-30 Long Mileage Motor Oil: Designed for today's smaller automobile engines. For service SJ / CF / ILSAC GF-1. Energy Conserving II. Part No. L0732-. See page 15 for packaging information.

Non-Detergent Motor Oil: A top quality non-detergent motor oil. For use where detergent oils are not required or desired. For service SA. SAE 10W, Pt. No. L0804-, SAE 20-20W, Pt. No. L0806-, SAE 30, Pt. No. L0807-, SAE 40, Pt. No. L0808, SAE 50, Pt. No. L0809-. See page 15 for packaging information.

2 Cycle Motor Oil: For use in air cooled, 2 cycle engines on motor cycles, lawn equipment, chain saws, snowmobiles and outboards. Pt. No. L0826-.

DEXRON III / MERCON Automatic Transmission Fluid: Recommended and approved for all General Motors, Chrysler, and Ford (1989 and Newer) or anywhere Dexron and Ford Mercon Fluids are specified. Product Part No. L0867-. See page 15 for packaging information.

Hydraulic-Transmission Fluid Type UTF: For heavy-duty equipment where UTF type fluids are required. Pt. No. L0873-.

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Metal Working Fluids

Darl No. 2 Cutting Oil: Multi-purpose dark cutting oil for all types of machining operations on a wide range of metals including, steel, copper, brass, and aluminum. Product Part No. L0520-. See page 15 for packaging information and package part number sufix.

No. 405 Dark Cutting Oil: Heavy-duty, dark cutting oil recommended for difficult machining operations. Excellent for high carbon steels, alloys, and stainless steels. Not recommended for brass, bronze, copper, or aluminum. Product Part No. F0587-. See page 15 for packaging information.

Flokool XX Cutting Oil: Multi-purpose cutting oil for high speed machining operations. Appears transparent on the workpiece and will drain off the completed parts quickly. Not recommended for brass, bronze, or copper. Product Part No. F0530-. See page 15 for packaging information.

Honing Oil: Light viscosity oil compounded with non-corrosive, sulfurized fatty bases to insure good fluidity and wetting action. Part No. F0535-.

No. 35 Soluble Oil: Multi-purpose, water soluble cutting oil. Forms a milky white emulsion that does not readily decompose. Part No. L0576-.

Cut-n-Cool: Heavy duty, water soluble cutting oil fortified with both sulfur and chlorine which delivers substantially longer tool life, improved finish, and more accurate cuts. May stain brass, bronze, and copper if not cleaned off work shortly after use. Product Part No. L0514-. See page 15 for packaging information.

Metal Working Fluid: A specially developed product for metal working operations. Excellent for drilling, tapping, sawing, and grinding. Packed in handy 12 OZ. / 340 g. spray can. Part No. L0185-063. See page 15 for packaging information.

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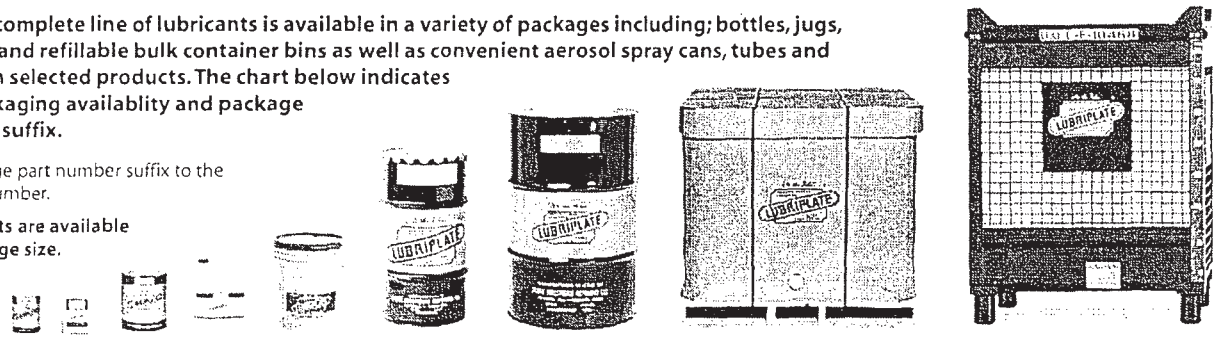
Packaging Containers

Lubriplate's complete line of lubricants is available in a variety of packages including; bottles, jugs, pails, drums and refillable bulk container bins as well as convenient aerosol spray cans, tubes and cartridges on selected products. The chart below indicates product packaging availablity and package part number suffix.

Add the package part number suffix to the product part number.

Not all products are available in every package size.



PRODUCT / PACKAGE PART NO. SUFFIX	24 / SM. CANS 14 OZ. / 397 g	12 / BOTTLES 1 QUART / 946 ml 2 LB. / .907 kg	6 / CANS 6 LB. / 2.72 kg	4 / JUGS 1 GAL. / 3.79 L 7 LB / 3.18 kg	PAIL 35 LB. / 15.9 kg 5 GAL. / 18.9 L	QTR. DRUM 120 LB. / 54 kg 16 GAL. / 60.5 L	FULL DRUMS 400 LB. / 181 kg 55 GAL. / 208 L	REFILLABLE OR DISPOSABLE BULK BINS.**
Multi-Purpose Synthetic Fluids	-	-	-	-057	-060	-061	-062	•
Air Compressor Fluids / Oils	-	-054	-	-057	-060	-061	-062	•
Hydraulic Oils	-	-	-	-057	-060	-061	-062	•
*Greases	-001	-	-006	-	-035	-039	-040	•
*Gear, Bearing & Recirculating Oils	-	-013	-	-007	-035	-039	-040	•
Specialty Greases	-001	-	-006	-	-035	-039	-040	•
Specialty Oils & Fluids	-	-054	-	-057	-060	-061	-062	•
Food Machinery Grade Fluids / Oils	-	-054	-	-057	-060	-061	-062	•
*Food Machinery Grade Greases	001	-	-006	-	-035	-039	-040	•
Motor Oils / Transmission Fluids	-	-054	-	-	-060	-	-062	•
Metal Working Fluids	-	-	-	-057	-060	-061	-062	•

*Items Sold By Weight. **For size, package part number suffix and price information on Bulk Bins call 800-733-4755.

Grease Cartridges: Lubriplate Grease Cartridges provide quick, clean, convenient, "on site" lubrication with reduced waste and grease contamination. SYNXTREME HD-2, SYN-1601, SYN-1602, No. 630-2, 730-2, 930-AA, 930-2, 1200-2, 1241, 1242, 1444, 1551, 1552, 3000, 3000-W, HIGH TEMP, LOW TEMP, MO-LITH NO. 2, MAG 1, EMB, SYNXTREME FG-2, SFL-1, SFL-2, FGL-1, FGL-2, FML-2, PURE TAC, CLEARPLEX-2 and SPECIAL AUTO-MARINE GREASE: These products are available in 14 1/2 OZ. / 411g cartridges, 40 to a case. Package Part No. Suffix -098.

GEAR SHIELD EXTRA HEAVY: Available in 10 1/2 OZ. / 297g caulk type cartridges, 40 to a case. Part No. L0152-000.

Lubricants In Plastic Tubes:

No. 105, 630-AA and AERO are available in 3/8 OZ. / 10.6 g plastic tubes, 288 to a case. Package Part No. Suffix -076.

No. 105, 130-AA, 630-AA, 930-AA, AERO and DS-ES are available in 1 3/4 OZ. / 50 g tubes, 36 to a case. Part No. Suffix -086.

No. 105 Gear Lube, 130-AA, 630-AA, LOW-TEMP, and APG 90 GEAR OIL are available in 10 OZ. / 284 g plastic tubes, 36 to a case. Package Part No. Suffix -092. and No. 105 Motor Assembly Grease Part No. L0034-094.

FJK000072

Multi-Purpose Spray Lubricants

Chain & Cable Fluid: Superior penetrating oil. A cleansing non-gumming oil. Lubricates wire rope, chains, cables, any moving metal surfaces. Prevents rust and corrosion. Protects brightwork, loosens rusty nuts and bolts. Excellent drilling, tapping, and sawing oil. 12 OZ. / 340 g. spray can. Part No. L0135-063.

Spray Lube "A": A multi-pupose, white lithium-based lubricant of medium density. Sprays like a fluid, congeals to a grease. Excellent for latches, locks, hinges, battery terminals and other hardware. Part No. L0034-063.

Gear Shield Extra Heavy: Developed for easy lubrication of open gears. A tough tacky grease. Excellent for fifth wheel applications. Packed in handy 11 OZ. / 311.8 g. spray can. Part No. L0152-063.

Oil Well In a Bottle™: An excellent multi-purpose, penetrating oil ideal for slides, hinges, rollers, cables, frozen nuts and bolts. Prevents rust and corrosion. Moisture displacing agent works on wet ignition for "wet start." Packed in 14 OZ. / 414 ml. non-aerosol, hand pump, spray bottle. Part No. L0188-067.

X-357 Lubricant: A special extreme pressure lubricant that penetrates and adheres. Water resistant and unaffected by temperature extremes. For use on pintle hooks, slide axles, open gears, fifth wheels. Contains moly-disulfide. Packed in handy 11 OZ. / 311.8 g. spray can. Part No. L0149-063.

Marine & Auto Guard: Multi-purpose penetrating oil. An excellent "wet start" product. Spray on wet plug wires and distributor cap. Outstanding moisture displacement properties. Prevents rust and corrosion. Excellent fogging oil. Packed in 12 OZ. / 340 g. spray can. Part No. L0774-063.

Food Machinery Grade Spray Lubricants: See page 13 for information on these lubricants.

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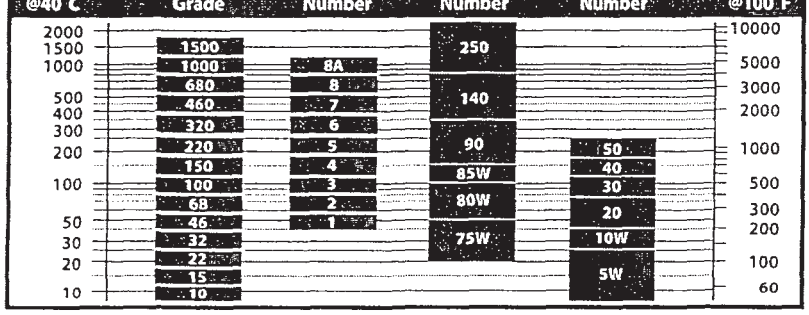
General Application Recommendations

The multitude of industrial machinery and construction equipment on the market today makes specific applications impossible to list here. It is best to refer to the OEM service manuals of the machinery for specific lubrication recommendations. Listed below are a few lubricants that will cover most general requirements. For additional information contact your local Lubriplate Distributor, Lubriplate District Manager (listed below) or Jim Girard, (800)733-4755.

APPLICATIONS	NORMAL TEMPERATURES	HIGH TEMPERATURES	LOW TEMPERATURES	FOOD MACHINERY GRADE NSF H-1 CLASS / FDA CFR 178.3570
GENERAL GREASE	1200-2 / SYN-1602	HIGH TEMP / 1552 / SYN-1602	MAG-1 / SYN-1602	FGL-1 / FGL-2 / SYNXTREME FG-2
GENERAL OIL	SPO-233 / SYN-LUBE-100	SPO-266 / SYN-LUBE-320	SPO-233 / SYN-LUBE-100	FMO-350AW / SFGO ULTRA-68
CENTRALIZED SYSTEMS / GREASE	930-AAA / 630-AAA / SYN-1600	930-AAA / SYN-1600	MAG-00 / 1550	FGL-0 / FGL-00 / SFL-0
CENTRALIZED SYSTEMS / OIL	SPO-233 / SYN-LUBE-100	SPO-277 / SYN-LUBE-460	SPO-222 / SYN-LUBE-68	FMO-350AW-500AW / SFGO ULTRA 68
GEAR BOXES (HELICAL, SPUR)	SPO-255 / SYN-LUBE-220	SPO-MG / SYN-LUBE-320	SPO-244 / SYN-LUBE-150	FMO-1100AW / SFGO ULTRA 220
GEAR BOXES (WORM)	SPO-277 / SYN-LUBE-460	SPO-288 / SYN-LUBE-680	SPO-MG / SYN-LUBE-320	FMO-3800AW / SFGO ULTRA 680
OPEN GEARS	GEAR SHIELD EXTRA HEAVY	GEAR SHIELD XTRA HEAVY	LOW TEMP GEAR SHIELD	PURE TAC
HYDRAULIC EQUIPMENT	HO-1 / HO-2 / SYN-LUBE-68	HO-2A / SYN-LUBE-100	LOW POUR HO / SFGO ULTRA-7	FMO-350AW / SFGO ULTRA 68
AIR COMPRESSORS (RECIPROCATING)	SYN-LUBE-68	SYN-LUBE-100	SYN-LUBE-32	SFGO ULTRA-68 or 100
AIR COMPRESSORS (ROTARY SCREW)	SYN-LUBE-46	SYN-LUBE-46	SYN-LUBE-32	SFGO ULTRA-46 or 68
HIGH SPEED BEARINGS (OIL)	HO-0 / SYN-LUBE-32	SPO-233 / SYN-LUBE-100	1 / SYN-LUBE-32	FMO-350AW / SFGO ULTRA-68
HIGH SPEED BEARINGS (GREASE)	EMB / POLY HP-2 / SYN-1602	1552 / POLY HP-2 / SYN-1602	MAG-1 / GR-132 / SYN-1602	FGL-1 / SFL-1
LOW SPEED BEARINGS (OIL)	SPO-244 / SYN-LUBE-150	SPO-255 / SYN-LUBE-220	SPO-233 / SYN-LUBE-100	FMO-500AW / SFGO ULTRA 100
LOW SPEED BEARINGS (GREASE)	1242 / 1552 / SYN-1602	HIGH TEMP / 1552 / SYN-1602	MAG-1 / SYN-1602	FGL-2 / SFL-2
WHEEL BEARINGS (GREASE)	1552 / SYN-1602	1552 / SYN-1602	1552 / SYN-1602	FGL-1 / SYNXTREME FG-2
SLIDES / CAMS	1241 / 1242 / SYN-1602	1444 / SYN-1602	MAG-1 / SYN-1602	FGL-2 / SYNXTREME FG-2
MIST SYSTEMS	Mist Oil / SYN-LUBE-100	Mist Oil / SYN-LUBE-100	Rock Drill Oil 10R / SYN-LUBE-32	FMO-350AW / SFGO ULTRA-68
WIRE ROPE / CABLES / CHAINS	Chain & Cable Fluid	SPO-288	Chain & Cable Fluid	FMO-350AW / SFGO ULTRA-7
RUST / CORROSION PREVENTION	Chain & Cable Fl / SFGO ULTRA-7	Chain & Cable Fl / SFGO ULTRA-7	Chain & Cable Fl / SFGO ULTRA-7	FMO-350AW / SFGO ULTRA-7
ENGINE REBUILDING	105	105	105	-
MOLY GREASE (MOS_2)	3000	3000	3000W	-
REFRIGERATION COMPRESSORS	68N OR 68P Refrigeration Compressor Oil - Consult Data Sheet 5-23 and 5-23A for details.			RCO-68

Petroleum Based Product Synthetic Based Product

Oil Viscosity Classification Comparisons



NLGI Grease Classifications

NLGI NO.	DESCRIPTION	WORKED PENETRATION ASTM @ 77°F / 25°C
000	SEMI-FLUID	445 - 475
00	SEMI-FLUID	400 - 430
0	VERY-SOFT	355 - 385
1	SOFT	310 - 340
2	MEDIUM SOFT	265 - 295
3	MEDIUM	220 - 250
4	HARD	175 - 205
5-6	VERY HARD	85 - 160

Eastern Region Managers:

Dick Schettino - Eastern Regional Manager
800-733-4755 / Dicks@lubriplate.com

District Managers:

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717-665-0425 (FAX)
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Central Region Managers:

F.IK000073

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989-773-4368 (FAX)
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dking@lubriplate.com

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219 661-9069 (FAX)
sbesedick@lubriplate.com

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608-835-5689
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Elmore, OH 43416
419-862-7603
419-862-7903 (FAX)
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Ballwin, MO 63011
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636-458-7549 (FAX)
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Plano, TX 75093
972-998-0344
972-398-3913 (FAX)
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Specialists:

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800-733-4755 - TimC@lubriplate.com

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610-398-2382 smorrow@lubriplate.com

Technical Service Center: Iliana Vargas - Director of Technology
800-733-4755 - ivargas@lubriplate.com

Special Projects Manager: Hubert Wrocklage -
314-894-2862 - Cell: 314-221-0814
hwrocklage@lubriplate.com

Toledo Sales Coordinator: Mike Kontak - 419-691-2491
MikeK@lubriplate.com

Chief International Representative: Charles Husko - 1-813-907-3027
c.husko@att.net

LUBRIPLATE DIVISION / FISKE BROTHERS REFINING COMPANY
129 LOCKWOOD STREET / NEWARK, NJ 07105 / PHONE 800-733-4755 / FAX 800-347-5329
TOLEDO, OH OFFICE / PHONE 419-691-2491 / FAX 800-347-5348

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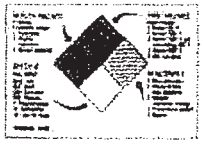

Material Safety Data Sheet

Name H0-3 LUBRIPLATE HYDRAULIC OIL **MSDS** cgwhn
Company FISKE BROS REFINING CO **FSC** 9150

MSDS Safety Information

FSC: 9150
MSDS Date: 01/01/1996
MSDS Num: CGWHN
LIIN: 00F032623
Product ID: H0-3 LUBRIPLATE HYDRAULIC OIL
MFN: 02
Responsible Party
Cage: 73219
Name: FISKE BROS REFINING CO
Address: 129 LOCKWOOD ST
City: NEWARK NJ 07105-4720
Info Phone Number: 201-589-9150
Emergency Phone Number: 201-589-9150
Preparer's Name: JAMES R KONTAK
Review Ind: Y
Published: Y

Preparer Co. when other than Responsible Party Co.

Cage: 73219
Name: FISKE BROS REFINING CO
Address: 129 LOCKWOOD ST
City: NEWARK NJ 07105-4720

Contractor Summary

Cage: 73219
Name: FISKE BROS REFINING CO
Address: 129 LOCKWOOD ST
City: NEWARK NJ 07105-4720
Phone: 201-589-9150

Ingredients

Name: MINERAL OIL

Name: ADDITIVES

Name: ZINC COMPOUND
% Wt: ANDlt;2

Health Hazards Data

FJK000074

Route Of Entry Inds - Inhalation: YES
Skin: NO
Ingestion: YES
Carcinogenicity Inds - NTP: NO
IARC: NO
OSHA: NO
Effects of Exposure: EYES: IRRITATION. SKIN: PROLONGED/REPEATED CONTACT MAY CAUSE IRRITATION. INGESTION: LOW TOXIC. MINUTE AMOUNTS ASPIRATED INTO THE LUNGS DURING INGESTION MAY CAUSE MILD TO SEVERE PULMONARY INJURY. IF IN JECTED BY HIGH PRESSURE UNDER SKIN, DELAY OF MEDICAL ATTENTION MAY CAUSE LOSS

932110091

OF AFFECTED PART OF THE BODY.
Explanation Of Carcinogenicity: NONE
Signs And Symptions Of Overexposure: IRRITATION
First Aid: EYES: FLUSH W/CLEAR WATER FOR 15 MINS. SKIN: WASH W/SOAP ANDamp; WATER. INHALATION: IMMEDIATELY REMOVE FROM EXPOSURE. INGESTION: DON'T INDUCE VOMITING. OBTAIN MEDICAL ATTENTION IN ALL CASES.

Handling and Disposal

Spill Release Procedures: RECOVER LIQUID, WASH REMAINDER W/SUITABLE PETROLEUM SOLVENT/ADD ABSORBENT. KEEP PETROLEUM OUT OF SEWERS ANDamp; WATER COURSES.
Waste Disposal Methods: DISPOSE OF ABSORBED MATERIAL AT AN APPROVED WASTE DISPSOAL FACILITY/SITE IAW/LOCAL, STATE ANDamp; FEDERAL REGULATIONS.
Handling And Storage Precautions: KEEP CONTAINERS CLOSED WHEN NOT IN USE. DON'T HANDLE/STORE NEAR HEAT, SPARKS, FLAME/STRONG OXIDANTS.
Other Precautions: AVOID BREATHING OIL MIST.

Fire and Explosion Hazard Information

Flash Point Method: COC
Flash Point Text: 415-480F
Lower Limits: 0.9
Upper Limits: 7
Extinguishing Media: FOAM, DRY CHEMICAL, CO2/WATER SPRAY (FOG)
Fire Fighting Procedures: COOL EXPOSED CONTAINERS W/WATER. USE AIR SUPPLIED BREATHING EQUIPMENT FOR ENCLOSED/CONFINED SPACES.
Unusual Fire/Explosion Hazard: DON'T STORE/MIX W/STRONG OXIDANTS. EMPTY CONTAINERS RETAIN RESIDUE. DON'T CUT, DRILL, GRIND/WELD AS THEY MAY EXPLODE.

Control Measures

Respiratory Protection: NORMALLY NOT NEEDED
Ventilation: LOCAL EXHAUST: USED TO CAPTURE FUMES ANDamp; VAPORS.
Protective Gloves: OIL-RESISTANT
Eye Protection: GOGGLES
Other Protective Equipment: OIL RESISTANT APRON
Work Hygienic Practices: REMOVE/LAUNDER CONTAMINATED CLOTHING BEFORE REUSE. CLEANS THOROUGHLY AFTER CONTACT.

Physical/Chemical Properties

B.P. Text: ANDgt;550F
Vapor Pres: ANDlt;0.01
Vapor Density: ANDgt;5
Spec Gravity: 0.87-0.89
Solubility in Water: NEGLIGIBLE
Appearance and Odor: TRANSPARENT AMBER LIQUID W/MINERAL OIL ODOR

Reactivity Data

Stability Indicator: YES
Stability Condition To Avoid: HEAT, SPARKS, FLAME
Materials To Avoid: STRONG OXIDANTS; LIQUID CHLORINE, CONCENTRATED OXYGEN
Hazardous Decomposition Products: SULFUR DIOXIDE; CO
Hazardous Polymerization Indicator: NO

Toxicological Information

Ecological Information

MSDS Transport Information

FJK000075

Regulatory Information

Other Information

HAZCOM Label

932110092

Product ID: HO-3 LUBRIPLATE HYDRAULIC OIL
Cage: 73219
Company Name: FISKE BROS REFINING CO
Street: 129 LOCKWOOD ST
City: NEWARK NJ
Zipcode: 07105-4720
Health Emergency Phone: 201-589-9150
Label Required IND: Y
Date Of Label Review: 10/12/1999
Status Code: A
Origination Code: G
Hazard And Precautions: EYES: IRRITATION. SKIN: PROLONGED/REPEATED CONTACT MAY CAUSE IRRITATION. INGESTION: LOW TOXIC. MINUTE AMOUNTS ASPIRATED INTO THE LUNGS DURING INGESTION MAY CAUSE MILD TO SEVERE PULMONARY INJURY. IF IN JECTED BY HIGH PRESSURE UNDER SKIN, DELAY OF MEDICAL ATTENTION MAY CAUSE LOSS OF AFFECTED PART OF THE BODY.

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FISKE BROS REFINING -- 115 LUBRIPLATE - PETROLEUM LUBRICATING GREASE
MATERIAL SAFETY DATA SHEET
NSN: 915000F046313
Manufacturer's CAGE: 73219
Part No. Indicator: A
Part Number/Trade Name: 115 LUBRIPLATE

==========

General Information

==========

Item Name: PETROLEUM LUBRICATING GREASE
Company's Name: FISKE BROS REFINING CO
Company's Street: 129 LOCKWOOD ST
Company's City: NEWARK
Company's State: NJ
Company's Country: US
Company's Zip Code: 07105-4720
Company's Emerg Ph #: 201-589-9150
Company's Info Ph #: 201-589-9150
Record No. For Safety Entry: 001
Tot Safety Entries This Stk#: 001
Status: SE
Date MSDS Prepared: 01JAN94
Safety Data Review Date: 06MAR96
MSDS Preparer's Name: JAMES R KONTAK
Preparer's Company: FISKE BROS REFINING CO
Preparer's St Or P. O. Box: 129 LOCKWOOD ST
Preparer's City: NEWARK
Preparer's State: NJ
Preparer's Zip Code: 07105-4720
MSDS Serial Number: BYMTK

==========

Ingredients/Identity Information

==========

Proprietary: NO
Ingredient: CALCIUM SOAP
Ingredient Sequence Number: 01
NIOSH (RTECS) Number: 1002172CS

Proprietary: NO
Ingredient: MINERAL OIL
Ingredient Sequence Number: 02
NIOSH (RTECS) Number: 1002836MO

Proprietary: NO
Ingredient: ADDITIVES
Ingredient Sequence Number: 03
NIOSH (RTECS) Number: 1000144AD

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Physical/Chemical Characteristics

Appearance And Odor: SMOOTH, WHITE GREASE W/MINERAL OIL ODOR
Boiling Point: >550F
Vapor Pressure (MM Hg/70 F): <0.01
Vapor Density (Air=1): >5
Specific Gravity: 0.89-0.93
Evaporation Rate And Ref: (BU AC=1): <0.01
Solubility In Water: NEGLIGIBLE

Fire and Explosion Hazard Data

Flash Point: 360F
Flash Point Method: COC
Lower Explosive Limit: 0.9
Upper Explosive Limit: 7
Extinguishing Media: FOAM, DRY CHEMICAL, CO2/WATER SPRAY
Special Fire Fighting Proc: USE AIR-SUPPLIED BREATHING EQUIPMENT FOR ENCLOSED/CONFINED AREAS. COOL EXPOSED CONTAINERS W/WATER.
Unusual Fire And Expl Hazrds: EMPTY CONTAINERS RETAIN RESIDUE. DON'T CUT, DRILL, GRIND/WELD AS THEY MAY EXPLODE.

Reactivity Data

Stability: YES
Cond To Avoid (Stability): HEAT, SPARKS, FLAME.
Materials To Avoid: STRONG OXIDANTS LIKE LIQUID CHLORINE, CONCENTRATED OXYGEN.
Hazardous Decomp Products: SULFUR DIOXIDE INCOMPLETE COMBUSTION MAY FORM CO.
Hazardous Poly Occur: NO

Health Hazard Data

Route Of Entry - Inhalation: YES
Route Of Entry - Skin: NO
Route Of Entry - Ingestion: NO
Health Haz Acute And Chronic: EYES/SKIN: IRRITATION. INHALATION: MINUTE AMOUNTS ASPIRATED INTO LUNGS MAY CAUSE MILD TO SEVERE PULMONARY INJURY.
Carcinogenicity - NTP: NO
Carcinogenicity - IARC: NO
Carcinogenicity - OSHA: NO
Explanation Carcinogenicity: NONE
Signs/Symptoms Of Overexp: IRRITATION.
Emergency/First Aid Proc: EYES: FLUSH W/WATER FOR 15 MINS. SKIN: WASH W/SOAP & WARM WATER. IF INJECTED BY HIGH PRESSURE, REGARDLESS OF THE APPEARANCE/IT'S SIZE. CONTACT PHYSICIAN IMMEDIATELY. DELAY MAY CAUSE LOSS OF AFFECTED BODY PARTS. INHALATION: REMOVE TO FRESH AIR. INGESTION: DON'T INDUCE VOMITING. OBTAIN MEDICAL ATTENTION IN ALL CASES.

Precautions for Safe Handling and Use

Steps If Matl Released/Spill: SCRAPE UP GREASE, WASH REMAINDER W/SUITABLE PETROLEUM SOLVENT/ADD ABSORBENT. KEEP PETROLEUM PRODUCTS OUT OF SEWERS & WATER COURSES. ADVISE AUTHORITIES IF PRODUCT HAS ENTERED/MAY ENTER SEWERS & WATER COURSES.
Waste Disposal Method: DISPOSE OF IAW/FEDERAL, STATE & LOCAL REGULATIONS. DISPOSE OF ABSORBED MATERIAL AT AN APPROVED WASTE DISPOSAL FACILITY/SITE.
Precautions-Handling/Storing: KEEP CONTAINERS CLOSED WHEN NOT IN USE. DON'T HANDLE/STORE NEAR HEAT, SPARKS, FLAME/STRONG OXIDANTS.
Other Precautions: EXPOSURE TO LIQUIDS, VAPORS, MISTS & FUMES SHOULD BE MINIMIZED.

Control Measures

Respiratory Protection: NORMALLY NOT NEEDED
Ventilation: LOCAL EXHAUST: USED TO CAPTURE FUMES AND VAPORS
Protective Gloves: OIL-RESISTANT
Eye Protection: GOGGLES
Other Protective Equipment: OIL-RESISTANT APRON
Work Hygienic Practices: REMOVE/LAUNDER CONTAMINATED CLOTHING BEFORE REUSE. WASH THOROUGHLY AFTER HANDLING.
Suppl. Safety & Health Data: THE TLV FOR OIL MIST IN AIR IS 5 MG/CUM.

Transportation Data

Disposal Data

Label Data

Label Required: YES
Label Status: G
Common Name: 115 LUBRIPLATE
Special Hazard Precautions: EYES/SKIN: IRRITATION. INHALATION: MINUTE AMOUNTS ASPIRATED INTO LUNGS MAY CAUSE MILD TO SEVERE PULMONARY INJURY. IRRITATION.
Label Name: FISKE BROS REFINING CO
Label Street: 129 LOCKWOOD ST
Label City: NEWARK
Label State: NJ
Label Zip Code: 07105-4720
Label Country: US
Label Emergency Number: 201-589-9150

FISKE BROS REFINING CO -- HO-0 LUBRIPLATE HYDRAULIC OIL -- 9150-00F003874

==========

MSDS Safety Information

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FSC: 9150
MSDS Date: 01/01/1996
MSDS Num: CGWHK
LIIN: 00F003874
Tech Review: 04/22/1998
Product ID: HO-0 LUBRIPLATE HYDRAULIC OIL
Responsible Party
Cage: 73219
Name: FISKE BROS REFINING CO
Address: 129 LOCKWOOD ST
City: NEWARK NJ 07105-4720 US
Info Phone Number: 201-589-9150
Emergency Phone Number: 201-589-9150
Preparer's Name: JAMES R KONTAK

==========

Preparer Co. when other than Responsible Party Co.

==========

Cage: 73219
Assigned Ind: N
Name: FISKE BROS REFINING CO
Address: 129 LOCKWOOD ST
City: NEWARK NJ 07105-4720

==========

Contractor Summary

==========

Cage: 73219
Name: FISKE BROS REFINING CO
Address: 129 LOCKWOOD ST
City: NEWARK NJ 07105-4720 US
Phone: 201-589-9150

==========

Ingredients

==========

Name: MINERAL OIL

Name: ADDITIVES

Name: ZINC COMPOUND
% by Wt: <2

FJK000080

==========

Health Hazards Data

==========

Route Of Entry Inds - Inhalation: YES
Skin: NO
Ingestion: YES
Carcinogenicity Inds - NTP: NO
IARC: NO
OSHA: NO
Effects of Exposure: EYES: IRRITATION. SKIN: PROLONGED/REPEATED CONTACT MAY CAUSE IRRITATION. INGESTION: LOW TOXIC. MINUTE AMOUNTS ASPIRATED INTO THE LUNGS DURING INGESTION MAY CAUSE MILD TO SEVERE PULMONARY INJURY. IF IN JECTED BY HIGH PRESSURE UNDER SKIN, DELAY OF MEDICAL ATTENTION MAY CAUSE LOSS OF AFFECTED PART OF THE BODY.
Explanation Of Carcinogenicity: NONE
Signs And Symptions Of Overexposure: IRRITATION
First Aid: EYES: FLUSH W/CLEAR WATER FOR 15 MINS. SKIN: WASH W/SOAP & WATER. INHALATION: IMMEDIATELY REMOVE FROM EXPOSURE. INGESTION: DON'T INDUCE VOMITING. OBTAIN MEDICAL ATTENTION IN ALL CASES.

==========

Handling and Disposal
==========
Spill Release Procedures: RECOVER LIQUID, WASH REMAINDER W/SUITABLE PETROLEUM SOLVENT/ADD ABSORBENT. KEEP PETROLEUM OUT OF SEWERS & WATER COURSES.
Waste Disposal Methods: DISPOSE OF ABSORBED MATERIAL AT AN APPROVED WASTE DISPSOAL FACILITY/SITE IAW/LOCAL, STATE & FEDERAL REGULATIONS.
Handling And Storage Precautions: KEEP CONTAINERS CLOSED WHEN NOT IN USE. DON'T HANDLE/STORE NEAR HEAT, SPARKS, FLAME/STRONG OXIDANTS.
Other Precautions: AVOID BREATHING OIL MIST.
==========
Fire and Explosion Hazard Information
==========
Flash Point Method: COC
Flash Point Text: 415-480F
Lower Limits: 0.9
Upper Limits: 7
Extinguishing Media: FOAM, DRY CHEMICAL, CO2/WATER SPRAY (FOG)
Fire Fighting Procedures: COOL EXPOSED CONTAINERS W/WATER. USE AIR SUPPLIED BREATHING EQUIPMENT FOR ENCLOSED/CONFINED SPACES.
Unusual Fire/Explosion Hazard: DON'T STORE/MIX W/STRONG OXIDANTS. EMPTY CONTAINERS RETAIN RESIDUE. DON'T CUT, DRILL, GRIND/WELD AS THEY MAY EXPLODE.
==========
Control Measures
==========
Respiratory Protection: NORMALLY NOT NEEDED
Ventilation: LOCAL EXHAUST: USED TO CAPTURE FUMES & VAPORS.
Protective Gloves: OIL-RESISTANT
Eye Protection: GOGGLES
Other Protective Equipment: OIL RESISTANT APRON
Work Hygienic Practices: REMOVE/LAUNDER CONTAMINATED CLOTHING BEFORE REUSE. CLEANS THOROUGHLY AFTER CONTACT.
==========
Physical/Chemical Properties
==========
B.P. Text: >550F
Vapor Pres: <0.01
Vapor Density: >5
Spec Gravity: 0.87-0.89
Solubility in Water: NEGLIGIBLE
Appearance and Odor: TRANSPARENT AMBER LIQUID W/MINERAL OIL ODOR
==========
Reactivity Data
==========
Stability Indicator: YES
Stability Condition To Avoid: HEAT, SPARKS, FLAME
Materials To Avoid: STRONG OXIDANTS; LIQUID CHLORINE, CONCENTRATED OXYGEN
Hazardous Decomposition Products: SULFUR DIOXIDE; CO
Hazardous Polymerization Indicator: NO
==========
Toxicological Information
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Ecological Information
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MSDS Transport Information
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Regulatory Information
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Other Information
==========
==========
HAZCOM Label
==========
Product ID: HO-0 LUBRIPLATE HYDRAULIC OIL
Cage: 73219
Company Name: FISKE BROS REFINING CO
Street: 129 LOCKWOOD ST
City: NEWARK NJ
Zipcode: 07105-4720 US
Health Emergency Phone: 201-589-9150
Date Of Label Review: 10/12/1999
Hazard And Precautions: EYES: IRRITATION. SKIN: PROLONGED/REPEATED CONTACT MAY CAUSE IRRITATION. INGESTION: LOW TOXIC. MINUTE AMOUNTS ASPIRATED INTO THE LUNGS DURING INGESTION MAY CAUSE MILD TO SEVERE PULMONARY INJURY. IF IN JECTED BY HIGH PRESSURE UNDER SKIN, DELAY OF MEDICAL ATTENTION MAY CAUSE LOSS OF AFFECTED PART OF THE BODY.
==========
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Material Safety Data Sheet

SECTION I - Material Identity
SECTION II - Manufacturer's Information
SECTION III - Physical/Chemical Characteristics
SECTION IV - Fire and Explosion Hazard Data
SECTION V - Reactivity Data
SECTION VI - Health Hazard Data
SECTION VII - Precautions for Safe Handling and Use
SECTION VIII - Control Measures
SECTION IX - Label Data
SECTION X - Transportation Data
SECTION XI - Site Specific/Reporting Information
SECTION XII - Ingredients/Identity Information

SECTION I - Material Identity

Item Name	
Part Number/Trade Name	LUBRIPLATE "100"SERIES #105
National Stock Number	9150000584452
CAGE Code	73219
Part Number Indicator	A
MSDS Number	89095
HAZ Code	B

SECTION II - Manufacturer's Information

Manufacturer Name	FISKE BROTHERS REFINING COMPANY
P.O. Box	N/K
Street	129 LOCKWOOD STREET
City	NEWARK
State	NJ
Country	US
Zip Code	07105-4720
Emergency Phone	201-589-9150
Information Phone	201-589-9150

FJK000083

MSDS Preparer's Information

MSDS Preparer Name	ROBERT J.SIBILIA
Date MSDS Prepared/Revised	01JUN89

932110100

Date of Technical Review	15FEB90
Active Indicator	N
Item Manager	CX

Alternate Vendors

Vendor #1 Name	LUBRICANT PACKAGING SUPPLY COMPANY
Vendor #1 CAGE	8A122
Vendor #5 CAGE	BHJJP

SECTION III - Physical/Chemical Characteristics

Specification Number	N/R
Specification Type/Grade/Class	N/R
Hazard Storage Compatibility Code	N1-F6
NRC License Number	N/R
Net Propellant Weight (Ammo)	N/R
Appearance/Odor	SMOOTH,WHITE GREASE WITH MINERAL OIL ODOR
Boiling Point	>550F,>288C
Melting Point	SEMI-SOLID
Vapor Pressure	<0.01
Vapor Density	>5.0
Specific Gravity	0.89-0.93
Evaporation Rate	<0.01(N-BUTYL ACETATE =)
Solubility in Water	NEGLIGIBLE
Percent Volatiles by Volume	N/K
Chemical pH	N/K
Container Pressure Code	4
Temperature Code	8
Product State Code	U

SECTION IV - Fire and Explosion Hazard Data

Flash Point	360
Flash Point Method	UNK
Lower Explosion Limit	0.9
Upper Explosion Limit	7.0
Extinguishing Media	USE CARBON DIOXIDE, FOAM, DRY CHEMICAL, OR WATER FOG
Special Fire Fighting Procedures	FIRE FIGHTERS SHOULD USE NIOSH APPROVED SCBA & FULL PROTECTIVE EQUIPMENT WHEN FIGHTING CHEMICAL FIRE. USE WATER SPRAY TO COOL NEARBY CONTAINERS EXPOSED TO FIRE
Unusual Fire/Explosion Hazards	MAY EXPLODE OR EXCESSIVE HEAT MAY CAUSE PRODUCTION OF HAZARDOUS DECOMPOSITION PRODUCTS

SECTION V - Reactivity Data

Stability	YES
Stability Conditions to Avoid	HIGH TEMPERATURES
Materials to Avoid	STRONG OXIDIZING AGENTS,LIQUID CHLORINE,OR CONC.OXYGEN
Hazardous Decomposition Products	A MIXTURE OF AIRBORNE SOLID, LIQUID PARTICULATES AND GASES (CO) WILL EVOLVE WHEN THIS MATERIAL UNDERGOES COMBUSTION
Hazardous Polymerization	NO
Polymerization Conditions to Avoid	NOT APPLICABLE
LD50 - LD50 Mixture	N/K

SECTION VI - Health Hazard Data

Route of Entry: Skin	YES
Route of Entry: Ingestion	YES
Route of Entry: Inhalation	NO
Health Hazards - Acute and Chronic	ACUTE: EYE:MAY BE MILDLY IRRITATING. SKIN:RELEASE DURING HIGH PRESSURE USAGE MAY RESULT IN INJECTION OF OIL INTO THE SKIN CAUSING IRRITAION.INHALATION:NOT EXPECTED TO BE A RELEVANT ROUTE OF EXPOSURE; HIGH TEMPERATURE VAPORS IRRITATE RESPIRATORY TRACT. INGESTION:LOW LEVEL OF TOXICITY. CHRONIC: SKIN DISORDERS
Carcinogenity: NTP	NO
Carcinogenity: IARC	NO
Carcinogenity: OSHA	NO
Explanation of Carcinogenity	DATA PER MSDS
Symptoms of Overexposure	DATA PER MSDS
Medical Cond. Aggrevated by Exposure	PRE-EXISTING SKIN DISORDERS MAY BE AGGRAVATED BY EXPOSURE TO THIS PRODUCT
Emergency/First Aid Procedures	INHALATION: REMOVE TO FRESH AIR. GIVE OXYGEN IF BREATHING IS DIFFICULT. GET MEDICAL ATTENTION. EYE: FLUSH WITH WATER FOR 15 MINUTES WHILE HOLDING EYELIDS OPEN. GET MEDICAL ATTENTION. SKIN: WASH WITH SOAP & WATER/WATERLESS CLEANER. REMOVE CONTAMINATED CLOTHING. IF IRRITATION PERSISTS, GET MEDICAL ATTENTION. INGESTION: DO NOT INDUCE VOMITING. IN GENERAL, NO TREATMENT IS REQUIRED. GET MEDICAL ADVICE

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SECTION VII - Precautions for Safe Handling and Use

Steps if Material Released/Spilled	SCOOP UP EXCESS GREASE. CLEAN AREA WITH APPROPRIATE CLEANER
Neutralizing Agent	NONE SPECIFIED BY MANUFACTURER

Waste Disposal Method	DISPOSE OF IN AN APPROPRIATE DISPOSAL FACILITY IN COMPLIANCE WITH LOCAL REGULATIONS
Handling and Storage Precautions	RE IN A COOL, DRY PLACE WITH ADEQUATE VENTILATION. KEEP CONTAINERS TIGHTLY CLOSED WHEN NOT IN USE. KEEP AWAY FROM OPEN FLAMES & HIGH TEMPERATURES. MI
Other Precautions	MINIMIZE SKIN CONTACT. WASH WITH SOAP & WATER BEFORE EATING, DRINKING, SMOKING OR USING TOILET FACILITIES. LAUNDER CONTAMINATED CLOTHING BEFORE REUSE. PROPERLY DISPOSE OF CONTAMINATED LEATHER ARTICLES (SHOES) THAT CAN NOT BE DECONTAMINATED

SECTION VIII - Control Measures

Respiratory Protection	RESPIRATORY PROTECTION NOT ORDINARILY REQUIRED.USE NIOSH/MSHA APPROVED RESPIRATOR FOR ORGANIC VAPORS/MIST IF AVOVE PEL/TLV
Ventilation	NONE REQUIRED,USE LOCAL/GENERAL TO MAINTAIN PEL/TLV IN CASE OF MIST/VAPORS
Protective Gloves	RUBBER AS REQUIRED
Eye Protection	SAFETY GLASSES RECOMMENDED
Other Protective Equipment	EYE WASH STATION WORK CLOTHING AND APRON AS REQUIRED
Work Hygenic Practices	OBSERVE GOOD PERSONAL HYGIENE PRACTICES AND RECOMMENDED PROCEDURES. DO NOT WEAR CONTAMINATED CLOTHING OR FOOTWEAR
Supplemental Health/Safety Data	DO NOT GET IN EYES OR ON CLOTHING
Disposal Code	O

SECTION IX - Label Data

Protect Eye	NO
Protect Skin	NO
Protect Respiratory	NO
Chronic Indicator	UNKNOWN
Contact Code	UNKNOWN
Fire Code	UNKNOWN
Health Code	UNKNOWN
React Code	UNKNOWN
Specific Hazard and Precaution	ACUTE: EYE:MAY BE MILDLY IRRITATING. SKIN:RELEASE DURING HIGH PRESSURE USAGE MAY RESULT IN INJECTION OF OIL INTO THE SKIN CAUSING IRRITAION.INHALATION:NOT EXPECTED TO BE A RELEVANT ROUTE OF EXPOSURE; HIGH TEMPERATURE VAPORS IRRITATE

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RESPIRATORY TRACT. INGESTION:LOW LEVEL OF TOXICITY. CHRONIC: SKIN DISORDERS. DATA PER MSDS

SECTION X - Transportation Data

Container Quantity	10
Unit of Measure	OZF

SECTION XI - Site Specific/Reporting Information

Volatile Organic Compounds (P/G)	0
Volatile Organic Compounds (G/L)	0

SECTION XII - Ingredients/Identity Information

Ingredient #	01
Ingredient Name	CALCIUM SOAP
CAS Number	N/K
NIOSH Number	1002172CS
Proprietary	NO
Percent	N/K
OSHA PEL	NOT ESTABLISHED
ACGIH TLV	NOT ESTABLISHED
Recommended Limit	NOT ESTABLISHED
Ingredient #	02
Ingredient Name	MINERAL OIL
CAS Number	N/K
NIOSH Number	1003240MO
Proprietary	NO
Percent	N/K
OSHA PEL	NOT ESTABLISHED
ACGIH TLV	NOT ESTABLISHED
Recommended Limit	NOT ESTABLISHED
Ingredient #	03
Ingredient Name	ADDITIVES
CAS Number	UNKNOWN
NIOSH Number	1000144AD
Proprietary	NO
Percent	N/K
OSHA PEL	UNKNOWN
ACGIH TLV	UNKNOWN
Recommended Limit	NOT ESTABLISHED
Ingredient #	04
Ingredient Name	(ZNCPD) ZINC COMPOUND,(CONTAINING < 5% OF ZN)
CAS Number	N/K
NIOSH Number	1004580ZC

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Proprietary	NO
Percent	N/K
OSHA PEL	NOT ESTABLISHED
ACGIH TLV	NOT ESTABLISHED
Recommended Limit	NOT ESTABLISHED

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Material Safety Data Sheet

SECTION I - Material Identity
SECTION II - Manufacturer's Information
SECTION III - Physical/Chemical Characteristics
SECTION IV - Fire and Explosion Hazard Data
SECTION V - Reactivity Data
SECTION VI - Health Hazard Data
SECTION VII - Precautions for Safe Handling and Use
SECTION VIII - Control Measures
SECTION IX - Label Data
SECTION X - Transportation Data
SECTION XI - Site Specific/Reporting Information
SECTION XII - Ingredients/Identity Information

SECTION I - Material Identity

Item Name	
Part Number/Trade Name	LUBRIPLATE AIR TOOL LUBRICANT
National Stock Number	9150L400653F
CAGE Code	73219
Part Number Indicator	A
MSDS Number	184026
HAZ Code	B

SECTION II - Manufacturer's Information

Manufacturer Name	FISKE BROS REFINING CO
P.O. Box	N/K
Street	129 LOCKWOOD ST
City	NEWARK
State	NJ
Country	US
Zip Code	07105-4720
Emergency Phone	201-589-9150
Information Phone	201-589-9150

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MSDS Preparer's Information

Street	129 LOCKWOOD ST
City	NEWARK

932110106

State	NJ
Zip Code	07105-4720
Date MSDS Prepared/Revised	01FEB95
Date of Technical Review	04APR96
Active Indicator	N

Alternate Vendors

Vendor #5 CAGE	BZBXP

SECTION III - Physical/Chemical Characteristics

Appearance/Odor	AMBER OIL W/SWEET ODOR
Boiling Point	>550F
Melting Point	LIQUID
Vapor Pressure	<5
Vapor Density	>5
Specific Gravity	0.88
Decomposition Temperature	N/K
Evaporation Rate	N/K
Solubility in Water	NEGLIGIBLE
Percent Volatiles by Volume	N/K
Chemical pH	N/K
Corrosion Rate	N/K
Container Pressure Code	4
Temperature Code	8
Product State Code	U

SECTION IV - Fire and Explosion Hazard Data

Flash Point Method	COC
Lower Explosion Limit	0.9
Upper Explosion Limit	7
Extinguishing Media	FOAM, DRY CHEMICAL, CO2, WATER SPRAY (FOG)
Special Fire Fighting Procedures	COOL EXPOSED CONTAINERS W/WATER. USE AIR-SUPPLIEDBREATHING EQUIPMENT FOR ENCLOSED/CONFINED SPACES
Unusual Fire/Explosion Hazards	DON'T CUT, DRILL, GRIND/WELD AS THEY MAY EXPLODE

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SECTION V - Reactivity Data

Stability	YES
Stability Conditions to Avoid	EXCESSIVE HEAT, SPARKS/OPEN FLAMES
Materials to Avoid	STRONG OXIDANTS, LIQUID CHLORINE, CONCENTRATED OXYGEN
Hazardous Decomposition Products	SULFUR DIOXIDE. IF INCOMPLETE COMBUSTION, CO2 & HYDROGEN CHLORIDE

Hazardous Polymerization	NO
Polymerization Conditions to Avoid	N/K

SECTION VI - Health Hazard Data

Route of Entry: Skin	NO
Route of Entry: Ingestion	NO
Route of Entry: Inhalation	NO
Health Hazards - Acute and Chronic	SKIN/EYES: PROLONGED/REPEATEDCONTACT MAY CAUSE IRRITATION. EXPOSURE TO LIQUIDS, VAPORS, MISTS & FUMES SHOULD BE MINIMIZED. PRODUCT HAS A LOW ORDER OF ACUTE ORAL TOXICITY
Carcinogenity: NTP	NO
Carcinogenity: IARC	NO
Carcinogenity: OSHA	NO
Explanation of Carcinogenity	NONE
Symptoms of Overexposure	IRRITATION
Medical Cond. Aggrevated by Exposure	N/K
Emergency/First Aid Procedures	EYES: FLUSH W/CLEAR WATER FOR 15 MINS. SKIN: WASHW/SOAP & WARM WATER. INHALATION: REMOVE TO FRESH AIR. INGESTION: DON'T INDUCE VOMITING. OBTAIN MEDICAL ATTENTION IN ALL CASES

SECTION VII - Precautions for Safe Handling and Use

Steps if Material Released/Spilled	HANDLE AS AN OIL SPILL. AVOID BREATHING VAPORS/MIST. USE ADEQUATE VENTILATION
Neutralizing Agent	N/K
Waste Disposal Method	DISPOSE OF CHEMICAL WASTE IAW/FEDERAL, STATE & LOCAL REGULATIONS
Handling and Storage Precautions	STORE AT TEMPS <100F. STORE IN A COOL, DRY AREA IN TIGHTLY CLOSED CONTAINERS. USE ADEQUATE VENTILATION. AVOID EXCESSIVEHEAT, SPARKS/OPEN FLAMES
Other Precautions	AVOID PROLONGED/REPEATED SKIN CONTACT/BREATHING OIL MIST. NORMAL HYGIENIC & SAFETY PRECAUTIONS SHOULD BE OBSERVED WHEN HANDLING CHEMICALS. DON'T STORE/MIX W/STRONG OXIDANTS. EMPTY CONTAINERS RETAIN RESIDUE

SECTION VIII - Control Measures

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Respiratory Protection	IF CONCENTRATED VAPORS ARE PRESENT & ADEQUATE VENTILATION IN UNAVAILABLE, USE PROPER RESPIRATOR FOR ORGANIC VAPORS

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Ventilation	LOCAL EXHAUST/MECHANICAL (GENERAL)
Protective Gloves	PLASTIC/RUBBER
Eye Protection	CHEMICAL SPLASH GOGGLES
Other Protective Equipment	AIR MONITORING SHOULD BE PERFORMED IF OPERATIONS CAUSE AIR CONCENTRATIONS APPROACHING PEL LIMITS

SECTION IX - Label Data

Protect Eye	NO
Protect Skin	NO
Protect Respiratory	NO
Chronic Indicator	UNKNOWN
Contact Code	UNKNOWN
Fire Code	UNKNOWN
Health Code	UNKNOWN
React Code	UNKNOWN

SECTION X - Transportation Data

Container Quantity	1
Unit of Measure	QT

SECTION XI - Site Specific/Reporting Information

Volatile Organic Compounds (P/G)	0
Volatile Organic Compounds (G/L)	0

SECTION XII - Ingredients/Identity Information

Ingredient #	1
Ingredient Name	O-DICHLOROBENZENE, 1,2-DICHLOROBENZENE (ORTHO)
CAS Number	95501
NIOSH Number	CZ4500000
Proprietary	NO
Percent	3
OSHA PEL	300 MG/CUM
ACGIH TLV	301 MG/CUM
Recommended Limit	50 PPM
Ingredient #	2
Ingredient Name	PETROLEUM LUBE OIL
CAS Number	1003
NIOSH Number	1010405LO
Proprietary	NO
Percent	0
OSHA PEL	N/K

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ACGIH TLV	N/K
Recommended Limit	N/K

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ANNUAL REPORT

by

Chief Engineer
S. A. LUBETKIN

to the

PASSAIC VALLEY SEWERAGE COMMISSIONERS

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FOR THE YEAR

1973

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Violation and Elimination - Fair Lawn Water Pollution Control Facilities, 2-01 Saddle River Road, Fair Lawn, N.J.
Intermittent (M. Tomaro)

This activated sludge plant treats an average daily flow of 2.7 million gallons per day and discharges its chlorinated effluent to Saddle River, a tributary of the Passaic River. The sludge is digested and dried in lagoons. The licensed operator is Donald Eelman. The Commissioners monitor the discharge from this plant routinely.

In 1973 of 47 samples taken 6 were unsatisfactory as follows:

May 17, 1973: Sample had a slightly high C.O.D., turbidity and suspended solids. Upon reporting this to the Chief Operator, the inspector was informed that on the morning of May 17, two aeration tanks were being cleaned, and therefore some activated sludge was carried over to the effluent from the temporarily overloaded remaining units. Things were back to normal the following day.

September 12, 26, October 24, 31 and November 8, 1973: These samples, generally speaking had a slightly high turbidity, suspended solids & B.O.D. and was explained by a plant "upset". It is to be noted that the samples for the remainder of the year were satisfactory.

Violation and Elimination - Fiske Bros. Refining Co. 129 Lockwood Street, Newark, N.J.
February 7, 1973 (J.McLaughlin)

While making routine inspections of his district , Inspector J. McLaughlin saw the hose coupling strap from a Tank Truck break, releasing approximately 60-75 gallons of bright stock oil into Esther St. The tank truck was owned by Tank Truck Rentals of Croydon, Pa. and was on lease to Chemical Leaman Tank Lines, Inc. of Downingtown, Pa. making a delivery to Fiske Bros.

The driver notified his terminal manager in Pennsylvania while Inspector Mc Laughlin contacted Mr. Louis De Nicola the terminal manager for Chemical Leaman in Newark. Mr. Di Nicola contacted Sampson Tank Cleaning Co., Bayonne, to clean up the oil.

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Meanwhile Mr. Clifford Wolf, Supt. of Fiske Bros., directed two Fiske employees and the driver in preventing the oil from flowing into the catch basin at Lister and Esther Streets by spreading oil-dry over the area.

Violation and Elimination - Fiske Bros. (con't.)

Sampson Tank Cleaning Co., crew and equipment arrived at approximately 4:30 P.M. and completed the clean-up and removal at 5:30 P.M.

Violation and Elimination - Glamorene Products Corp. 175 Entin Rd., Clifton, N.J.
March 26, 1973 (F. Wendt)

At 11:30 A.M. on March 26, 1973, Mrs. Molnar of Rutherford , N.J. called P.V.S.C. and reported that a white discharge was comi from the Entin Storm Sewer.

Inspector Wendt was assigned and found that the Glamorene Products Corp., was the source of the pollution. Two cases of liquid detergent fell and broke during a delivery to this company. Company employees then hosed down the material into the storm sewer thence the Passaic River.

Mr. Noll, the Plant Manager,was warned that if there was a repetition of this type of accident, he should not wash it into the storm sewer but should apply an absorbent material or vacuum i up and wash it into the sanitary sewer.

Violation and Elimination - City of Hackensack, So. Summit Avenue Storm Sewer
May 17 - December 14, 1973 (J. Perrapato)

While tracing the oil in Millbank Brook back to its source, Mr. Lubetkin noticed a small flow from a storm drain on the Raywin Realty property, which appeared to come from South Summit Avenue, Hackensack. On May 17, 1973, a sample was taken and found to be polluting (very high fecal coliform count, high turbidity, suspended solids, and C.O.D.).

On May 24, 1973, Mr. Richard Galofaro, Sanitarian of the Borough of Lodi, wrote to the PVSC, stating that a joint inspection was conducted by the Lodi and Hackensack Health Departments concerning the sewage discharge into Lodi waterways. A dye test had proved negative, and further testing was to be done by the Hackensack Health Department. Mr. Galofaro requested a copy of the analysis, which was sent to him on June 5, 1973.