171055

BEAVER OIL COMPANY WASTE SURVEY FORM

NOTICE (40 CFR 264.12): ACCEPTANCE OF THE GENERATOR'S WASTE INDICATES THAT BEAVER OIL HAS THE APPROPRIATE PERMITS FOR AND WILL ACCEPT THE WASTE THE GENERATOR IS SHIPPING.

GENERATOR NAME: ARROW GEAR COMPANY

FACILITY ADDRESS: 2301 CURTIS STREET
DOWNERS GROVE, IL. 60515

BILLING NAME & ADDRESS IF DIFFERENT THAN GENERATOR:

FACILITY CONTACT: MIKE CERVINKA

PHONE: (630) 969-7640

ILL EPA GEN. #: 0430305016

US EPA GEN. #: ILD 005075205

MANIFEST MAILING ADDRESS IF DIFFERENT THAN GENERATOR: MIKE CERVINKA -ARROW GEAR CO

NAME OF WASTE: WASTE OIL,WATER, COOLANT & MINERAL SPIRITS

PROCESS GENERATING WASTE: LUBRICANTS USED IN EQUIPMENT DURING THE MANUFACTURING -GEAR PRODUCTIO

IS THIS A US EPA HAZARDOUS WASTE (40 CFR 261)? __ YES X NO IF YES, ATTACH LAND DISPOSAL CERTIFICATION

PLEASE PROVIDE APPLICABLE HAZARDOUS WASTE CODES: ____

BROKER ____ CONTACT ____ PHONE # ____

PHYSICAL/CHEMICAL CHARACTERISTICS OF WASTE

COLOR	ODOR	PHYSICAL STATE @ 70 °F	LAYERS	SOLIDS PERCENTAGE
DARK	__ NONE X MILD __ STRONG DESCRIBE ____	__ SOLID __ SEMI-SOLID X LIQUID __ POWDER	__ MULTILAYERED __ BI-LAYERED __ SINGLE PHASED	5 5% __ 5.1-20% __ 20.1-40% __ 40.1-60 % __ 60.1-80% __ 80.1-100% EXACT ____

pH	SPECIFIC GRAVITY	FLASH POINT	REACTIVITY
__ < 2.1 __ 2.1-4 0 X 4.1-7 0 __ 7.1-10 __ 10.1-12.4 __ 12.5-14.0 __ NA EXACT 6 D002 __	__ <0.8 X 0.8-1.0 __ 1.1-1.2 __ 1.3-1.4 __ 1.5-1.7 __ >1.7 EXACT ____	__ 140 °F-200 °F X >200 °F __ NO FLASH __ OPEN CUP X CLOSED CUP __ EXACT D001 __	__ EXPLOSIVE __ SHOCK SENSITIVE __ RADIOACTIVE __ ETIOLOGICAL X NA D003 __

CHEMICAL COMPOSITION (TOTAL MUST BE 100 %)

LUBRICANT (OIL)	20%	MINERAL SPIRITS	0 - 1%
COOLANT	40%		%
WATER	40%		%

OTHER COMPONENTS - TOTAL (PPM)

CYANIDES	____	PESTICIDES	____
SULFIDES	____	HERBICIDES	____
PCBs	____	CHLORINE	326 PP

SHIPPING INFORMATION

METHOD OF SHIPMENT:
X BULK LIQUID
__ DRUM (TYPE/SIZE) ____

ANTICIPATED VOLUME:
20,000± GALLONS
____ DRUMS

PER: __ ONE TIME __ QUARTER
__ WEEK X YEAR
__ MONTH __ ____

IS THIS A DOT HAZARDOUS WASTE? __ YES X NO

IS THIS A DOT HAZARDOUS SUBSTANCE? __ YES X NO

PROPER DOT SHIPPING NAME NON-HAZARDOUS WASTE - LIQUID (USED OIL,WATER,COOLANT & MINERAL SPIRI

HAZARD CLASS NOT REGULATED

UN / NA NUMBER ____ PG ____ RQ ____

WASTE CHARACTERISTICS

TABLE 40 CFR 261.24: MAXIMUM CONCENTRATION OF CONTAMINANTS FOR THE TOXICITY CHARACTERISTIC

G = DETERMINATION MADE BY GENERATOR INVESTIGATION / A = DETERMINATION MADE BY ACTUAL ANALYSIS

TO THE GENERATOR: ANY WASTE WHICH CONTAINS CONSTITUENTS IN CONCENTRATIONS ABOVE THE REGULATORY LEVEL SHOWN CONSTITUTES THAT WASTE AS A HAZARDOUS WASTE

CONSTITUENT	REGULATORY LEVEL (mg/L)	ANALYSIS (mg/L)	G	A	CONSTITUENT	REGULATORY LEVEL (mg/L)	ANALYSIS (mg/L)	G	A
ARSENIC	5.0	<5.0		X	HEXACHLOROBENZENE	0.13	<0.13		X
BARIUM	100.0	<100.0		X	HEXACHLOROBUTADIENE	0.5	<0.5		X
BENZENE	0.5	<0.5		X	HEXACHLOROETHANE	3.0	<3.0		X
CADMIUM	1.0	<1.0		X	LEAD	5.0	<5.0		X
CARBON TETRACHLORIDE	0.5	<0.5		X	LINDANE	0.4	<0.4	X	
CHLORDANE	0.03	<0.03	X		MERCURY	0.2	<0.2		X
CHLOROBENZENE	100.0	<100.0		X	METHOXYCHLOR	10.0	<10.0	X	
CHLOROFORM	6.0	<6.0		X	METHYL ETHYL KETONE	200.0	<200.0		X
CHROMIUM	5.0	<5.0		X	NITROBENZENE	2.0	<2.0		X
O-CRESOL	200.0 (*)	<200.0 (*)		X	PENTACHLOROPHENOL	100.0	<100.0		X
M-CRESOL	200.0 (*)	<200.0 (*)		X	PYRIDINE	5.0	<5.0		X
P-CRESOL	200.0 (*)	<200.0 (*)		X	SELENIUM	1.0	<1.0		X
CRESOL	200.0 (*)	<200.0 (*)		X	SILVER	5.0	<5.0		X
2,4-D	10.0	<10.0		X	TETRACHLOROETHYLENE	0.7	<0.7		X
1,4-DICHLOROBENZENE	7.5	<7.5		X	TOXAPHENE	0.5	<0.5	X	
1,2-DICHLOROETHANE	0.5	<0.5		X	TRICHLOROETHYLENE	0.7	<0.7		X
1,1-DICHLOROETHYLENE	0.7	<0.7		X	2,4,5-TRICHLOROPHENOL	400.0	<400.0		X
2,4-DINITROTOLUENE	0.13	<0.13		X	2,4,6-TRICHLOROPHENOL	2.0	<2.0		X
ENDRIN	0.02	<0.02	X		2,4,5-TP (SILVEX)	1.0	<1.0	X	
HEPTACHLOR (and epoxide)	0.008	<0.008	X		VINYL CHLORIDE	0.2	<0.2		X

(*): IF O-, M-, AND P-CRESOL CONCENTRATIONS CANNOT BE DIFFERENTIATED, THE TOTAL CRESOL CONCENTRATION IS USED.

TOTAL METAL ANALYSIS TCLP*

METAL	PPM	METAL	PPM	METAL	PPM	METAL	PPM
ARSENIC	ND*	CHROMIUM	0.16*	SELENIUM	N.D*	NICKEL	
BARIUM	ND*	MERCURY	ND*	SILVER	ND*	ZINC	
CADMIUM	ND*	LEAD	1.2*	COPPER		IRON	

IS THIS WASTE CLASSIFIED AS A F001-F005, F039, D001, D002, OR D012-D043 WASTE? ___ YES X NO

IF YES, ENTER UNDERLYING HAZARDOUS CONSTITUENTS AND THEIR CONCENTRATIONS: _____

CHECK THE APPROPRIATE TOC CONCENTRATION: ___ ≥ 1% X < 1%

BENZENE WASTE OPERATIONS CERTIFICATION:

DOES THIS WASTE CONTAIN BENZENE WHICH IS REQUIRED TO BE MANAGED AND TREATED IN ACCORDANCE WITH THE PROVISIONS OF 40 (
61.342 SUBPART (f)(2)? ___ YES X NO

IF YES, ENTER THE FLOW-WEIGHTED ANNUAL AVERAGE BENZENE CONCENTRATION ____(ppm) AND/OR THE TOTAL ANNUAL BENZENE QUAN'
IN ALL WASTE STREAMS _____(Mg/YEAR)

GENERATOR'S CERTIFICATION:

I HEREBY CERTIFY THAT ALL INFORMATION WHICH I HAVE PROVIDED ABOVE DESCRIBES THE WASTE STREAM THAT IS BEING OR IS PROPOSED TO
SENT TO BEAVER OIL COMPANY'S HODGKINS, ILLINOIS AND / OR GARY, INDIANA FACILITY. I UNDERSTAND IT IS MY RESPONSIBILITY TO PROPE
IDENTIFY AND CLASSIFY MY MATERIAL IN ACCORDANCE WITH STATE AND / OR FEDERAL REGULATIONS. I ALSO CERTIFY THAT THE ABOVE INFORMA'
IS COMPLETE AND ACCURATE TO THE BEST OF MY KNOWLEDGE.

AUTHORIZED SIGNATURE Michael J. Cronka TITLE MANAGER DATE 10/12/98

GREAT LAKES ANALYTICAL

1380 Busch Parkway
Buffalo Grove, Illinois 60089

Email: info@glalabs.com
(847) 808-7766 FAX (847) 808-7772

Midwest Environmental
18-4 E. Dundee Road, Suite 201
Barrington, IL 60010-5280
Attention: Kae C. Armon

Client Project ID: Arrow Gear
Sample Descript: TCLP Extract: Machine Lube/Coolan
Lab Number: 809-2215

Sampled: Sep 11, 1998
Received: Sep 15, 1998
Extracted: Sep 21, 1998
Analyzed: Sep 21-22, 1998
Reported: Sep 23, 1998

TOXICITY CHARACTERISTIC LEACHING PROCEDURE (TCLP): METALS

Analyte	EPA Method	Detection Limit mg/L (ppm)	Sample Results mg/L (ppm)
Arsenic	3015/7060	0.50	N.D.
Barium	3015/6010	5.0	N.D.
Cadmium	3015/6010	0.10	N.D.
Chromium	3015/6010	0.10	0.10
Lead	3015/7421	0.20	1.2
Mercury	7470	0.020	N.D.
Selenium	3015/7740	0.10	N.D.
Silver	3015/6010	0.50	N.D.

Analytes reported as N.D. were not present above the stated limit of detection.

GREAT LAKES ANALYTICAL

Kevin W. Keeley
Laboratory Director

Please Note:

The matrix spike and duplicate recoveries and arsenic and selenium are outside established control limits.

8092215.mid <1>

GREAT LAKES ANALYTICAL

1380 Busch Parkway
Buffalo Grove, Illinois 60089

Email: info@glalabs.com
(847) 808-7766 FAX (847) 808-7772

Midwest Environmental	Client Project ID:	Arrow Gear	Sampled:	Sep 11, 1998
18-4 E. Dundee Road, Suite 201	Sample Descript:	Liquid: Machine Lube/Coolant	Received:	Sep 15, 1998
Barrington, IL 60010-5280				
Attention: Kae C. Armon	Lab Number:	809-2215	Analyzed:	Sep 17, 1998
			Reported:	Sep 23, 1998

LABORATORY ANALYSIS

Analyte	EPA Method	Sample Results
Flash Point, Closed Cup(F).....	ASTMD93-85	>200

GREAT LAKES ANALYTICAL

Kevin W. Keeley
Laboratory Director

8092215.mid <2>

Accreditations: [illegible] IL [illegible] Illinois [illegible] PA-[illegible], New Jersey DEP-54001 New York [illegible]
[illegible] Tennessee DOH-[illegible] Tennessee DEC, USACE, Virginia [illegible] Wisconsin DNR-99931716[illegible]

GREAT LAKES ANALYTICAL

1380 Busch Parkway
Buffalo Grove, Illinois 60089

Email: info@glalabs.com
(847) 808-7766 FAX (847) 808-7772

Midwest Environmental
19[illegible] E. Dundee Road, Suite 201
Barrington, IL 60010-5280
Attention: Kae C. Armon

Client Project ID: Arrow Gear
Sample Descript: Liquid: Machine Lube/Coolant

Lab Number: 809-2215

Sampled: Sep 11, 1998
Received: Sep 15, 1998
Analyzed: Sep 16, 1998
Reported: Sep 23, 1998

LABORATORY ANALYSIS

Analyte	EPA Method	Sample Result pH units
pH	9041	8.0

GREAT LAKES ANALYTICAL

Kevin W. Keeley
Laboratory Director

8092215.mid <3>

GREAT LAKES ANALYTICAL

1580 Busch Parkway
Buffalo Grove, Illinois 60089

Email: info@glalabs.com
(847) 808-7766 FAX (847) 808-7772

Midwest Environmental	Client Project ID:	Arrow Gear	Sampled: Sep 11, 1998
18-4 E. Dundee Road, Suite 201	Sample Descript:	TCLP Extract: Machine Lube/Coolan	Received: Sep 15, 1998
Barrington, IL 60010-5280	Analysis Method:	EPA 8260	Extracted: Sep 16, 1998
Attention: Kae C. Armon	Lab Number:	809-2215	Analyzed: Sep 21, 1998
			Reported: 9/22

TCLP VOLATILES

Analyte	Detection Limit mg/L	Sample Results mg/L
Benzene	0.40	N.D.
Carbon tetrachloride	0.40	N.D.
Chlorobenzene	0.40	N.D.
Chloroform	0.40	N.D.
1,2-Dichloroethane	0.40	N.D.
1,1-Dichloroethylene	0.40	N.D.
Methyl ethyl ketone	100	N.D.
Tetrachloroethylene	0.40	N.D.
Trichloroethylene	0.40	N.D.
Vinyl chloride	0.16	N.D.

Analytes reported as N.D. were not present above the stated limit of detection.

GREAT LAKES ANALYTICAL

Kevin W. Keeley
Laboratory Director

8092215.mid <4>

GREAT LAKES ANALYTICAL

1330 Busch Parkway
Buffalo Grove, Illinois 60089

Email: info@glabs.com
(847) 808-7766 FAX (847) 808-7772

Midwest Environmental	Client Project ID:	Arrow Gear	Sampled:	Sep 11, 1998
18[illegible] E. Dundee Road, Suite 201	Sample Descript:	TCLP Extract: Machine Lube/Coolan	Received:	Sep 15, 1998
Barrington, IL 60010-5280	Analysis Method:	EPA 8270	Extracted:	Sep 21, 1998
Attention: Kae C. Armon	Lab Number:	809-2215	Analyzed:	Sep 22, 1998
			Reported:	Sep 23, 1998

TCLP SEMI-VOLATILES

Analyte	Detection Limit mg/L	Sample Results mg/L
o-Cresol	1,800	N.D.
m-, p-Cresol	1,800	N.D.
Cresol	1,800	N.D.
1,4-Dichlorobenzene	68	N.D.
2,4-Dinitrotoluene	1.2	N.D.
Hexachlorobenzene	1.2	N.D.
Hexachloro-1,3-butadiene	4.5	N.D.
Hexachloroethane	27	N.D.
Nitrobenzene	18	N.D.
Pentachlorophenol	900	N.D.
Pyridine	45	N.D.
2,4,5-Trichlorophenol	3,600	N.D.
2,4,6-Trichlorophenol	18	N.D.

Analytes reported as N.D. were not present above the stated limit of detection. Because matrix effects and/or other factors required additional sample dilution, detection limits for this sample have been raised.

GREAT LAKES ANALYTICAL

Kevin W. Keeley
Laboratory Director

8092215.mid <5>

ARROW
GEAR
COMPANY

2301 Curtiss Street Downers Grove, Illinois 60515-4036

Fax Cover Form

Date 9-25-98

Deliver To MR. RAY VINTIKA From MICHAEL CERVINKA

Company BEAVER OIL CO, INC. Phone Number 630-969-7640

Fax Number 708/354-5627 Fax Number 630-969-0253

Number of Pages Including Cover Page 6

Message:

PLEASE ATTACH THIS TCLP TO OUR PROFILE.

THANK YOU,

Michael