INVENTORY 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95

PC

Ward Transformer Co., Inc.

TRANSFORMER DEPT.

№ 2340

Received From: Texas Gulf
Town: Aurora State N.C.
Received Via: Date: 11/25/87
Card Made: Jack Sayers P.O. No:
Sold To:

Original Cost:
Shop Cost:
Incoming Freight:
Date Billed:
Our R No:
Cust. Order No:

EQUIPMENT: Station Type Transformer

Serial No. H-886552B

Make: G.E.	K.V.A. 1500	Imp. 8.13	Phase: 3	Style No.
H. Volts: 22900 Delta	Type: STR	Form:	Cycles: 60	Cat. No.
L. Volts: 480 Delta	Gals Oil: 340	Pol:	N.P. No. 652	Spec. No.
No. Taps 4 Taps	Up ☒ Down ☒	YEAR BUILT:		
24100	Pocket Pri Sec	Top Pri. Sec	Steel ☒ Cast ☐	Cast Top Bot.
23500	Stud Pri Sec	Oblong ☐	Straight ☒ Round ☐	Corregated ☐
22900 - 100%		Ht. top of H.V.:		Tank & Fittings:
22300		Ht. No. H.V. Bush:		C & C Wt:
21700		Dia:	Wide:	Oil Wt:
		Deep:		Total Wt: 8650
		Oil Level Gauge ☒		Thermometer ☒
		Tap Changer:	External ☒	Internal ☐
		NEW USER:		
		REBUILT USER:		
		DEALER:		

10816789

WELDED DOWN TOP.

REMARKS: DAMAGED K.V. BUSHINGS (3) NEED REPLACING.
MAY HAVE TO CUT TOP TO REPLACE BUSHINGS.

47696 - 100% 47696 47696

1% 4% LABOR
INT. STATE EXEMPT
AMT. TAXABLE
AMT. OF TAX

TRANSFORMER TEST

Continuity		Lead Clearances		Exciting Current	At Volts	Core Loss	At Volts
Oil	N R	Oil Level		500 Cycles	At L Volts	High Pot.	High To Grd 45 K.V.
Grd Terminals	1 2	Surge Tested		Radio Interference OK	Polprity A	Low To Grd	5 K.V.
Oil Leak no		Anti Siphon Joints		Impeadence Calculated	At Volts	High To Low	K.V.
Pri. Grd Connected	Y N	Sec. Grd Connected	Y N	Number Taps 6	What %	Up 0	Down 5

SECONDARY BREAKER		Position	% Tap	Connect	Pot. Difference	T.T.R. Ratio	Calculated Ratio
Breaker No.		1		50199	50206	50.198	
Trip and Reset	Oil Temp. °C	2		48935	48941	48.935	
Factory Trip Allowable	To Secs.	3	100%	47695	47703	47.696	
Factory Trip Current	At °C	4		46458	46463	46.458	
Shop Trip Current	At °C	5		45195	45199	45.195	
Shop Trip Time Right Side	Secs.		out on 3rd	Tos	Tos	100%	A P
Shop Trip Time Left Side	Secs.						

INSULATION POWER FACTOR			OIL TEST		INCOMING	OUTGOING
High to Grd.	I.P.F.	M.F.	SHOT A	SHOT B	Color	Sy
High to Low	I.P.F.	M.F.	No. 1 K.V.	No. 1 K.V.	Next No.	2C3d.T1.05
Low to Grd.	I.P.F.	M.F.	No. 2 K.V.	No. 2 K.V.		4P3M 1.9
Megger High to Grd.	In	Out	No. 3 K.V.	No. 3 K.V.	Power Factor	
Megger Low to Grd	In	Out	No. 4 K.V.	No. 4 K.V.	Oxidation %	Time
Megger High to Low	In	Out	No. 5 K.V.	No. 5 K.V.	Oxidation %	Time
			TOTAL K.V.	TOTAL K.V.	Average K.V.	30-50-51

Fuse No.	Good	Bad	GRD. Clamps	IN	OUT	Approved	YES
Hangers	IN	OUT	Pri. Bushing Good		OUT	Date Tested	12-19-87
Arrestors	IN	OUT	Sec. Bushing Good		OUT	Tested	
Paint		OUT	Sec. Breaker	IN	OUT	By	[illegible]

REMARKS: NEW OIL VACUUM FILLED. RELAY RATIO 50:1

L.G. 22900 Δ - 480 Δ = 47.708

H.G. 19.1 MEGOHMS

H.L. FG

OHMS 28.5 °C MILLIOHMS

H1-H2 - 2.737 X1-X2 1.138

H2-H3 - 2.730 X2-X3 1.138

H1-H3 2.723 X1-X3 1.110

Texasgulf Shipping Record

1333

PHOSPHATE OPERATIONS
P. O. BOX 48
AURORA, N.C. 27806
PHONE (919) 322-4111

SHIP TO	DATE
Ward Transformer Raleigh, N.C.	Nov. 24, 1987
	SHIPPED BY Vendors Truck
PURCHASE ORDER NO. D97-25111	CHARGE W.O. 900406
REQUISITION NO. CM4-55244	B/L NO.

REASON FOR SHIPMENT

Repair

QUANTITY	UNIT	DESCRIPTION OF ITEMS SHIPPED
1	EA	G.E Transformer (with Ward Tag)
		1500 KVA, Primary 23000 Volts,
		480 volts secondary., S/N H886552B
		Job Scope: Replace damaged primary
		bushings and refill with NON PCB oil
		Exxon Univolt 60. Due to nature of repairs,
		No Tg inspection will be required on this repair.
		Tg Contacts: Robert Wetherington / Bruce Everett

11/24 Ray Albergen
WAREHOUSEMAN

009-00-103-050

ORDER SHEET

WARD TRANSFORMER CO., INC.

1 ☐ MFG. EQUIPMENT
2 ☐ USED EQUIPMENT
3 ☒ REPAIR
4 ☐ RENTAL
5 ☐ BROKER SALE - USED
6 ☐ BROKER SALE - NEW
7 ☐ CONSIGNMENT EQUIPMENT
8 ☐ PARTS
9 ☐ EXIDE ELECTRONICS
10 ☐ EXIDE CORP.
11 ☐ OEM
12 ☐ ROC PAD MOUNT
13 ☐ ROC SPECIAL
14 ☐ MISCELLANEOUS
☒ OIL
☐ DRY
☐ SWITCHGEAR
☐ OTHER

OUR ORDER NUMBER: 3136662
DATE SOLD: 11/23/87
CREDIT OK:
CUSTOMER NUMBER: 007782
SALESMAN: 25
SALES TERRITORY:
TERMS:

SOLD TO: TEXAS GULF INC
ADDRESS: PO BOX 48
CITY, STATE, ZIP CODE: AURORA, NC 27806
SHIP TO: TEXAS GULF INC.
STREET ADDRESS: HIGHWAY 306 NORTH
CITY, STATE ZIP CODE: AURORA, N.C. 27806

CUSTOMER P.O. NO.: D97-25111
ATTENTION: Robert Weatherington
TELEPHONE NO.: 322-4111 x 283
REFERENCE NO.:
ATTENTION: Bruce Evert
TELEPHONE NO.: (919) 322-4111 x 410

DATE PROMISED: ~~11/23/87~~ 11/15/
INSTRUCTIONS:
ROUTE VIA: WARD
☐ COLLECT
☐ PREPAID
☒ PREPAID & ADD

QUAN.	DESCRIPTION	UNIT COST	TOTAL
1	Pickup to repair 1500 KVA transformer 3Ø, OA, PRI 22900 Delta, sec 480 Delta		
	WORK ORDER # 01/15.01		
	Add freight → 450.00		

Note: We are to add our technicians rate from 11/19/87 where we to install bushings and they cancelled after we were already on the road.