INVENTORY 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99

BC

THE WARD COMPANIES
TRANSFORMER DEPT.

No. 4325

DIV: Oil

Purchased From:	TEXASGULF			Original Cost:	0
Town:	AURORA	State:	N.C.	Incoming Freight:	100
Received Via:	OUR TRUCK	Date: 12/15/87	Our P.O. No: TRADE-IN	Total Investment:	100
Sold To:				Shop Order No	
Cust. P.O. No:		Date Billed:		Invoice No:	

10816848

TRANSFORMER DATA: STATION TYPE

TRANSFORMER

MFG: WEST.	KVA: 225		Phase: 3	Cycles: 60	Class: OA
PRI. Volts: 22900 ▲	°C Rise: 65	Imp: 1.5	Type: S	Form:	Insul. Class:
SEC. Volts: 480Y/277	Pol:	H.V. Bil: KV	L.V. Bil: KV	Ser. No: 65J2534	
No Taps: 4 – /	% Taps – 2	Up – 2 Down	Gals. Oil:	Year Built:	No:
H.V. Bush: ☐ Wall ☒ Cover	Loc: Area: 3	HT. Top H.V. Bush: 67"	Max. HT. 67"	C. & C. Wt.	
L.V. Bush: ☒ Wall ☐ Cover	Loc. Area: 1	HT. Less H.V. Bush: 59"	Ship. Height: 59"	T. & F. Wt.	
H.V. Terminal Enclosure: ☐ Throat	☐ Air ☐ Oil Chamber	Wide: 53"	Ship. Width: 53"	Oil Wt.	
L.V. Terminal Enclosure: ☐ Throat	☒ Air ☐ Oil Chamber	Deep: 42"	Ship. Depth: 42"	Total Wt. 4160	

Pothead: ☐ H.V. ☐ L.V. ☐ Top ☐ Bottom

Tank Design: ☒ Straight ☐ Oblong ☐ Round ☒ Flat

Radiators: ☐ Rd. Tubes ☐ Panels ☐ Removable

☒ Welded Top ☐ Bolted Top ☐ Sealed Tank ☐ Gas-Oil-Sealed

☐ Conservator (Removable ☐ Yes ☐ No) ☐ Relief Pipe

☐ Auto. Gas Sealed ☐ Free Breathing

☒ Oil ☐ Silicon ☐ RTemp ☐ Water-Cooled

☐ Gas - Type _____ ☐ Other _____

☒ Oil Level Gauge ☐ w/c

☐ Tempera

☐ Wdg. T

☐ Pres./V

☐ Pres./

☐ Pres.

☐ Pres.

☐ Sud

☒ Dra

☒ Ta

☐ F

☐ F

☐ I

☐ Arrester MTGS. ☐ H.V. ☐ L.V.

☐ Oil Pump

☐ TCUL

☐ Live Front ☐ Dead Front

☐ Radial Feed ☐ Loop Feed

KV

Deep Compartment

MTD.

er

☐ Internal Mtd.

☐ Bushing Mtd.

☐ EFD

TEXAS GULF 225 KVA

C/N 4325

HAS STICKE WITHOUER 50 PPM

PPM 7.65

OLD REPAIR # 2313 R.C.

24045

23472

22900 - 100% TAP.

22327

21755

TOP NOW CUT LOOSE:

NOW IN "A" ROW.

APH	BPH	CPH
82.723	82.723	"SHOT"

L-G - 500 megΩ

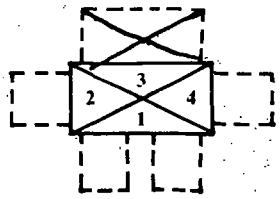
H-G - <1 megΩ

H-L 750 megΩ

FAULTY

POSTED 12-23-87 Tm

POSTED 9-23-88 Out B 9/9/88



TRANSFORMER TEST DATA

KVA	PH.	CY.	PRI. V.	SEC. V.
AMBIENT TEMP. °F	TOP OIL TEMP. °C	HUMIDITY %		

INSULATION RESISTANCE:

TEST	TEST RESULTS IN MEGOHMS	TEST KV	GUARD
LOW TO GROUND &	1000	25	
HIGH TO GROUND &	2000	25	
HIGH TO LOW:	1500	25	

WINDING RESISTANCE: (IN OHMS)

X_1-X_2		H_1-H_2	
X_1-X_3		H_1-H_3	
X_2-X_3		H_2-H_3	
X_0-X_1		H_0-H_1	

TRANSFORMER TURNS RATIOS: (POLARITY: ☑ SUBTRACTIVE ☐ ADDITIVE)

VOLTAGE	TAP NU.	% TAP	H —H /X —X	H —H /X —X	H —H /X —X	CALCULATED
	1-1-1		86.885	86.885	86.845	
	2-2-2		84.805	84.805	84.764	
22900	3-3-3	100%	82.724	82.724	82.685	
	4-4-4		80.643	80.643	80.603	
	5-5-5		78.562	78.562	78.519	
		OUT ON 3-3-3-100%				

DIELECTRIC INSULATION TESTS:

APPLIED POTENTIAL TEST	WINDING	VOLTAGE RATING	TEST VOLTAGE APPLIED IN KV	DURATION OF TEST IN SECS.
	H	22900	40	60
	X	480Y/277	5	60

INDUCED POTENTIAL TEST: _____ TIMES RATED VOLTAGE ACROSS FULL WINDING; _____ KV FROM _____ KV LINE TERMINAL TO GRD; _____ CYCLES PER SEC. FOR _____ CYCLES.

EXCITING CURRENT:

VOLTAGE _____	A PHASE	B PHASE	C PHASE	AVERAGE
LINE CURRENT _____	_____ AMPS. _____ %	_____ AMPS., _____ %	_____ AMPS., _____ %	_____ %

LOSSES/IMPEDANCE:

NO LOAD LOSS WATTS	LOAD LOSS WATTS	TOTAL LOSS WATTS	% IX	% IR	% IZ	CALCULATED % IZ

OIL TEST DATA: NEW OIL, VACUUM FILLED

AVERAGE DIELECTRIC	NEUT. #	COLOR	I.F.T.	SPECIFIC GRAVITY	PCB	
30-30-30-30 AV.	.05	.5			1.9	

CHECK LIST:

- ☐ OIL LEVEL
- ☑ NO LEAKS
- ☐ PRI. BUSHINGS
- ☐ SEC. BUSHINGS
- ☐ GAUGES
- ☐ INSPECTION COVER
- ☐ BUSHINGS MARKED
- ☐ SEC. GRD. CONNECTED
- ☑ WARD LABELS

H.V. BUSH. LOC: COVER 3

L.V. BUSH. LOC: WALL

DATE TESTED: 9-7-88

TESTED BY: [signature]

APPROVED BY:

OHMS	23.4	m. ll. OHMS
H-1-H-2-	3.582	X-1-X-2- 8.490
H-2-H-3-	3.627	X-2-X-3- 9.040
H-1-H-3-	3.248	X-1-X-3- 8.750
	31.574	
	33.065	
	30.929	

SHOP

WARD TRANSFORMER CO., INC.

P.O. BOX 30009 • MT. HERMAN CHURCH ROAD
RALEIGH, N.C. 27622

PHONE: 919-787-3553
800-334-9600

FAX: 919-787-1683

ORDER SHEET

ORDER NO.	DATE SOLD	SALESMAN
0002137299	08/09/88	25

CUSTOMER NO.	TERMS
007782	

SOLD TO
TEXAS GULF INC
PO BOX 48
AURORA, NORTH CAROLINA 27806 $450 - frt.

CUSTOMER P.O. NO. D98-13198
ATTENTION:
TELEPHONE NO.: 919-322-4111

SHIP TO
TEXAS GULF INC
PO BOX 48
AURORA, NORTH CAROLINA 27806

REFERENCE NO.:
ATTENTION:
TELEPHONE NO.: 919-322-4111

DATE REQUIRED: 09/02/88
F.O.B. PT. & FREIGHT:
SHIP VIA: OT/PP&ADD

ITEM NUMBER	QTY. ORD.	QTY. SHIP	DESCRIPTION	UNIT	[redacted]
82-4325	1	0	R & G WESTINGHOUSE TRANSFORMER, 225KVA, 3PH, 60CY, CLASS OA, 65 DEGREE C RISE, 1.5% IMP., PRI: 22900 VOLTS DELTA W/ 2-2.5% TAPS ABOVE & 2-2.5% TAPS BELOW, SEC: 480Y/277 VOLTS, 67"H X 53"W X 42"D 4160 LBS TOTAL WEIGHT SER.# 65J2534 NOTE: 1) LEAVE EXISTING PRI & SEC BUSHINGS IN PRESENT LOCATION & LEAVE THE L.V. AIR TERMINAL CHAMBER AS IT IS NOW. 2) ACCESSORIES ARE TO BE: OIL LEVEL GAUGE, TEMP. GAUGE, PRESSURE RELIEF VALVE (SMALL), P/V GAUGE & REG. VALVE, AND LOWER DRAIN W/ SAMPLER DEVICE.	EA	[redacted]

9-6-88
WO# 09/02 03 O.T.

INSTRUCTIONS: