Report # 65573 Sample #1

Laboratory Test Analysis Report for General Electric Co.

Received 11/08/2005

Date November 15, 2005

Serial Number:	HB08694001	Equipment Number:		Container Id:	1944		Phase:
Substation Name:	Mirant Kendall	Preservation System:		Miscellaneous Id:			Ambient Temp °C:
Design Type:		Transformer Name:	T4A	Second Name:			Humidity:
Manufacturer:	A-BB	Transformer Type:	Transformer	Sample Point:	Bottom		Top Oil Temp °C: 30
MFR. Year:	2001	Maximum kV:	13.8	Sequence #:			
Cooling System:		Maximum MVA:	12	Sample Date/By:	11/8/05		
Fluid Type:	Mineral	XFMR Oil Capacity:	2185 Gallons	Appr Type:	XFMR		
LTC MFR./Model:		LTC Type:		LTC Tank Type :		LTC Capacity:	Filter LTC: Yes

Dissolved Gas Analysis The dissolved gas analysis is run in accordance with ASTM D 3612 and IEC 60567. Values are reported in ppm vol/vol at STP and calibrated with gas-in-oil standards. Values before August 15, 2002 are reported at NTP and calibrated with gas standards.

Report #	Sample Date	Top Oil Temp °C	Hydrogen (H2)	Oxygen (O2)	Nitrogen (N2)	Methane (CH4)	Carbon Monox. (CO)	Ethane (C2H6)	Carbon Dioxide (CO2)	Ethylene (C2H4)	Acetylene (C2H2)	Total Gas CO	MB GAS ES	T TCG %	C2H4/ C2H2	Comb Gas Rate
																ppm/day
65573	11/08/2005	30	0	5850	81400	1.2	51	0	425	1.8	26	87755	80	0.05	0.07	0.04
59486	10/04/2004	37	0	16500	72700	2.0	14	0	329	5.0	42	89592	63	0.02	0.12	

Arcing in oil. Condition is moderate. Resample every 6 months.

Oil Quality Tests

	Sample	Top Oil	Water	Relative				Interfacial					Specific	Viscosity	Inhibitor	
Report #	Date	Temp °C	Content	Saturation	Color	Diel D877	Diel D1816	Tension	Neut. No.	Pour Pt	PF25C	PF 100C	Gravity	@ 40°C	Content	Visual
			ppm	%		kV	kV	dynes/cm	mgKOH/g	°C	%	%	60/60	cSt	%	
					D 1500	D 877	D 1816	D 971	D 974	D 97	D 924	D 924	D 1298	D 445	D 2668	D 1524
																Clear &
65573	11/08/2005	30	6	7	L 0.5	37	29	41	< 0.01	< -40	0.0776	1.5500	0.891	8.80	0.248	Bright

The water content as reported in relative saturation is good for in-service fluid. Other results are acceptable for in service fluid.

Additional Oil Quality Tests

65573

11/08/2005

Report #	Sample Date	Top Oil Temp °C	Viscosity (Saybolt) SUS	
65573	11/08/2005	30	D 2161 54.7	
Miscellaneo Report#	us Tests Sample Date	Top Oil Temp °C	PCB Content ppm D 4059	Aroclor Detected

< 2 This sample is considered to be 'Non-PCB' (<50 ppm) per EPA regulations listed in 40 CFR part 761.