

TRANSFORMER OIL DATA SHEET
Dissolved Gas-in-Oil Analysis

DATE : 11/3/2006
 CUSTOMER : HVES
 CIRCUIT/LOCATION : HVES #9
 MANUFACTURER : Howard Industries
 KVA/TYPE or M/N : 2000
 S/N : 4972393906

<u>TEST</u>	<u>IN-SERVICE NORMS*</u>	<u>RESULTS</u>	
HYDROGEN (H2)	240 ppm	: 2	ppm
METHANE (CH4)	160 ppm	: 2	ppm
ETHANE (C2H6)	115 ppm	: 2	ppm
ETHYLENE (C2H4)	190 ppm	: 9	ppm
ACETYLENE (C2H2)	11 ppm	: 0	ppm
CARBON MONOXIDE (CO)	580 ppm	: 14	ppm
CARBON DIOXIDE (CO2)	n/a	: 214	ppm
NITROGEN (N2)	n/a	: 62489	ppm
OXYGEN (O2)	n/a	: 14342	ppm
TOTAL GAS	n/a	: 77074	ppm
TOTAL COMBUSTIBLES	n/a	: 28	ppm
ESTIMATED TCG	n/a	: 0.02	%
CO2/CO RATIO		: 15.04	

ANALYSIS:

All gases are within accepted limits.

RECOMMENDATION:

Resample in 1 year.

*In-service Norms as follows:

	<u>GENERATING</u>	<u>TRANSMISSION</u>
HYDROGEN (H2)	240 ppm	100 ppm
METHANE (CH4)	160 ppm	120 ppm
ETHANE (C2H6)	115 ppm	65 ppm
ETHYLENE (C2H4)	190 ppm	30 ppm
ACETYLENE (C2H2)	11 ppm	35 ppm
CARBON MONOXIDE (CO)	580 ppm	350 ppm