

TRANSFORMER OIL DATA SHEET  
Dissolved Gas-in-Oil Analysis

DATE : 10/25/2006  
 CUSTOMER : HVES  
 CIRCUIT/LOCATION : HVES #31  
 MANUFACTURER : Howard Industries  
 KVA/TYPE or M/N : 2000  
 S/N : 483653806

<u>TEST</u>	<u>IN-SERVICE NORMS*</u>	<u>RESULTS</u>	
HYDROGEN (H2)	240 ppm	: 1	ppm
METHANE (CH4)	160 ppm	: 5	ppm
ETHANE (C2H6)	115 ppm	: 1	ppm
ETHYLENE (C2H4)	190 ppm	: 10	ppm
ACETYLENE (C2H2)	11 ppm	: 0	ppm
CARBON MONOXIDE (CO)	580 ppm	: 18	ppm
CARBON DIOXIDE (CO2)	n/a	: 197	ppm
NITROGEN (N2)	n/a	: 61581	ppm
OXYGEN (O2)	n/a	: 20377	ppm
TOTAL GAS	n/a	: 82190	ppm
TOTAL COMBUSTIBLES	n/a	: 36	ppm
ESTIMATED TCG	n/a	: 0.02	%
CO2/CO RATIO		: 10.77	

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