

Location:	Mfr:	Account: 63
Serial #: 062	KV: 27.6	Order #: 22
Bank/Ph:	KVA: 16000	Control #: 563
Tank: TRANSFORMER	Imp.(% Z):	Received: 01/16/2008
Breathing: SEAL	Container: V687 AA	Reported: 01/26/2008
Fluid: MIN	Gallons: 7712 L	Project ID:
		Customer ID: AA

<b>Dissolved Gas Analysis</b>	<b>ASTM D-3612</b>	<b>Lab Control Number:</b>	5633680
	<b>Report Units: PPM</b>	<b>Date Sampled:</b>	01/15/2008
		<b>Order Number:</b>	220345
		<b>Oil Temp.(C):</b>	
		<b>Hydrogen (H2):</b>	45
		<b>Methane (CH4):</b>	4
		<b>Ethane (C2H6):</b>	5
		<b>Ethylene (C2H4):</b>	6
		<b>Acetylene (C2H2):</b>	0
		<b>Carbon Monoxide (CO):</b>	254
		<b>Carbon Dioxide (CO2):</b>	357
		<b>Nitrogen (N2):</b>	64104
		<b>Oxygen (O2):</b>	23548
	<b>Total Dissolved Gas:</b>	88323	
	<b>Total Dissolved Combustible Gas:</b>	314	
	<b>Equivalent TCG Percent:</b>	0.3425	
<b>Oil Screen</b>	<b>D-1533B</b>	<b>Moisture in Oil (ppm):</b>	1
	<b>D-971</b>	<b>Interfacial Tension (dynes/cm):</b>	37.9
	<b>D-974</b>	<b>Acid Number (mg KOH/g):</b>	0.011
	<b>D-1500</b>	<b>Color Number (Relative):</b>	L.5
	<b>D-1524</b>	<b>Visual Exam. (Relative):</b>	CLR&SPRK
	<b>D-1524</b>	<b>Sediment Exam. (Relative):</b>	ND
	<b>D-877</b>	<b>Dielectric Breakdown (kV):</b>	
	<b>D-1816</b>	<b>Dielectric Breakdown 1 mm (kV mm-C):</b>	34 (1-24C)
	<b>D-1816</b>	<b>Dielectric Breakdown 2 mm (kV mm-C):</b>	
	<b>D-924</b>	<b>Power Factor @ 25C (%):</b>	
	<b>D-924</b>	<b>Power Factor @ 100C (%):</b>	
	<b>D-1298</b>	<b>Specific Gravity (Relative):</b>	0.889
	<b>WDS</b>	<b>Passivator (ppm):</b>	
<b>D-2668</b>	<b>Oxidation Inhibitor (wt. %):</b>		
<b>Diagnostics</b>	<b>DGA Key Gas / Interpretive Method: IEEE (C57.104)</b> (Most recent sample)	Hydrogen within condition 1 limits (100 ppm). Acetylene within condition 1 limits (2 ppm). Ethylene within condition 1 limits (50 ppm). Carbon Monoxide within condition 1 limits (350 ppm). Overall equipment condition code: 1.	
	<b>DGA Rogers Ratio Method:</b>	Analyzed gasses do not exceed warning thresholds. Rogers Ratios do not apply.	
	<b>DGA Cellulose (Paper) Insulation:</b>	CO2/CO Ratio not applicable - neither gas exceeds its limit.	
	<b>DGA IEEE/ANSI (C57.104-1991):</b> (Two most recent samples)	No previous sample available.	
	<b>Moisture in Oil:</b>	<b>Normal</b>	
	<b>Interfacial Tension:</b>	Acceptable for in-service oil (25 dynes/cm min).	
	<b>Acid Number:</b>	<b>Normal</b>	
	<b>Color Number and Visual:</b>	Color Number diagnostic not applicable. Visual diagnostic not applicable.	
	<b>Dielectric Breakdown D-877:</b>		
	<b>Dielectric Breakdown D-1816:</b>	Acceptable for in-service oil (23 kV min @ 1mm).	
<b>Power Factor @ 25C:</b>			
<b>Power Factor @ 100C:</b>			
<b>Oxidation Inhibitor:</b>			

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Breather: SEAL	Container: V687AA	Reported: 01/26/2008
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### FURAN TEST RESULTS

<b>5 – HYDROXYMETHYL – 2 FURALDENYDE:</b>	<0.1
<b>FURFURYL ALCOHOL:</b>	<0.1
<b>2 – FURALDEHYDE:</b>	<0.1
<b>2 – ACETYLFURAN:</b>	<0.1
<b>5 – METHYL – 2 – FURALDEHYDE:</b>	<0.1

Test - FURAN content in ug/g or ppm by ASTM D5837 HPLC method.