

91G44775

Sub-Name TF-106
Location OUTDOOR/GROUND

Mfg. PAUNELS
Unit No.

Gallons II
KVA 75

High Volt 12,470
Low Volt. 208

KARL FISCHER TESTING MOISTURE CONTENT EXPRESSED IN PPM

DATE	AVG. TEMP	PPM	PCT. SATURATION	MOISTURE BY DRY WEIGHT PCT.
06/16/09	25	16	23.6 UN	2.72
05/18/10	23	16	25.6 UN	3.01
04/12/11	17	12	24.7 QU	3.00
05/10/12	21	17	28.7 UN	3.38
03/13/13	9	9	26.1 QU	2.98
02/20/14	10	5	12.6 AC	1.49

RECOMMENDATION RETEST 1 YEAR

The moisture content has decreased since our last analysis. If service has not been performed, this may be due to temperature and/or operational changes. Continued normal monitoring is indicated.

FURAN ANALYSIS EXPRESSED IN PPB

DATE	5H2F	2FOL	2FAL	2ACF	5M2F	TOTAL
06/16/09	ND	NO	II	ND	ND	II
05/18/10	ND	NO	II	ND	ND	II
04/12/11	ND	NO	II	NO	ND	II
05/10/12	ND	NO	II	ND	ND	I
03/13/13	ND	NO	II	ND	ND	24
02/20/14	ND	NO	II	ND	ND	II

RECOMMENDATION RETEST 1 YEAR
NO DIAGNOSTIC CHANGES ARE NOTED IN FURAN LEVELS SINCE THE PREVIOUS ANALYSIS. THE CELLULOSIC INSULATION APPEARS TO BE IN GOOD CONDITION.

CALCULATED DP 800 EST. LIFE REMAINING 100%

GAS-IN-OIL ANALYSIS GAS CHROMATOGRAPHY EXPRESSED IN PPM

DATE	HYDROGEN	OXYGEN	NITROGEN	METHANE	CARBON MONOXIDE	CARBON DIOXIDE	ETHANE	ETHYLENE	ACETYLENE	TOTAL COMBUST.	TOTAL GAS
08/12/07	ND	24,663	51,556	2	15	760	ND		NO	III	76,999
06/14/08	6	25,985	55,754		II	736	ND	ND	ND	II	82,501
06/16/09	ND	25,565	53,553	TRACE	II	618	ND	TRACE	NO	II	79,749
05/18/10	ND	24,672	51,842	TRACE	10	475	ND	ND	ND	10	76,999
04/12/11	ND	26,833	67,254	2	V	645	ND	ND	ND	II	124,743
05/10/12	NO	24,681	56,989	ND	22	545	ND	I	ND	II	62,239
03/13/13	ND	27,158	73,174	2	2	483	ND	2	ND	V	100,821
02/20/14	ND	22,602	63,944	2	V	669	NO	ND	ND	V	87,224

RECOMMENDATION RETEST 1 YEAR

8-THE ANALYSIS OF THIS SAMPLE SHOWS NO SIGNIFICANT INCREASE IN THE COMBUSTIBLE GAS VOLUME. THIS INDICATES NORMAL OPERATION.

ICP METALS-IN-OIL EXPRESSED IN PPM

DATE	ALUMINUM	IRON	COPPER
08/29/07	ND	ND	0.036
08/14/08	NO	ND	0.046
06/16/09	ND	ND	0.044
05/18/10	ND	ND	0.033
04/12/11	ND	ND	0.036
05/10/12	ND	NO	0.051
03/13/13	NO	ND	0.052
02/20/14	ND	ND	0.032

RECOMMENDATION RETEST 1 YEAR

THERE HAS BEEN NO DIAGNOSTIC CHANGE SINCE THE PREVIOUS ANALYSIS. THESE DATA INDICATE NORMAL OPERATION.

PCB CONTENT EXPRESSED IN PPM

DATE	1242	1254	1260	OTHER	TOTAL
11/15/06					ND

COLOR LABEL: Green

CLASS: NON-PCB

Results in mg/kg
ND means None Detected
(<2 mg/kg per ASTM 04059)

NOTE: * After a result indicates that the test or service was performed by an outside source.