

PROBLEM SUMMARY

Sample Rating Trend

COMBUSTION

35958703-022-01 (S/N FZ6E148BFH)

Component

Transformer Oil

NOT GIVEN (674 GAL)



COMPONENT CONDITION SUMMARY

No relevant graphs to display

RECOMMENDATION

PROBLEMATIC TEST RESULTS										
Sample Status				SEVERE	MARGINAL	ABNORMAL				
DGA - Acetylene	ppm	*ASTM D3612(e)		<u>^</u> 6	<u> 8</u>	<u>^</u> 7				
DGA - Ethane	ppm	*ASTM D3612(e)		158	184	135				
Interfacial Tension	mN/m	ASTM D971(e)		20.78	19.35	20.3				

Customer Id: TORMOO Sample No.: WC05119928 Lab Number: 05119928 Test Package: TRF 3

To manage this report scan the QR code

To discuss the diagnosis or test data: System Automation +1 905-569-8600 x230 Kevin.Marson@wearcheck.com

To change component or sample information: Customer Service +1 1-800-237-1369 customerservice@wearcheck.com

RECOMMENDED ACTIONS

There are no recommended actions for this sample.

HISTORICAL DIAGNOSIS

COMBUSTION



30 Jan 2020 Diag: Doug Bogart

No corrective action is recommended at this time. Resample within 6 months for testing. These tests were conducted by a subcontracted laboratory with ISO Standard 17025 accreditation.{not applicable} Hydrogen within normal limits (112 μ L/L) Methane within normal limits (20 μ L/L) Ethane within normal limits (232 μ L/L) Ethylene within normal limits (18 μ L/L) Acetylene exceeds normal limits (1 μ L/L). Indication of high temperature, high energy discharge, or arcing activity. Carbon Monoxide within normal limits (161 μ L/L) Carbon Dioxide within normal limits (5000 μ L/L) CO2/CO Ratio is only applicable when CO2 greater than 5000 and CO greater than 500. Acetylene generation rate indicates an active fault. See Manufacturers Recommendation.. IFT: Diagnostic not applicable. AN: Acceptable for in-service oil (0.3 mg KOH/g max). Color acceptable for in-service oil (1.5 max). Dielectric: Diagnostic not applicable..



10 Apr 2019 Diag: Doug Bogart

COMBUSTION



No corrective action is recommended at this time. Resample at earliest opportunity to establish gas generation rate. These tests were conducted by a subcontracted laboratory with ISO Standard 17025 accreditation.{not applicable} Acetylene at 7 uL/L exceeds normal limits (1 uL/L). Indication of high temperature, high energy discharge, or arcing activity. The water content is negligible. 2-FurylAldehyde < 10, 5-HydroxyMethylFuralde < 10, 5-Methyl-2-Furaldehyde 15, 2-ActeylFuran <10, 2-FurylAlchohol 23. The AN level is acceptable for this fluid. The condition of the transformer oil is suitable for further service.



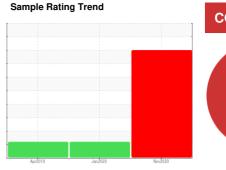


OIL ANALYSIS REPORT

35958703-022-01 (S/N FZ6E148BFH)

Transformer Oil

NOT GIVEN (674 GAL)





DIAGNOSIS

Wear

{not applicable}

Contamination

Hydrogen within normal limits (112 µL/L) Methane within normal limits (20 µL/L) Ethane within normal limits (232 µL/L) Ethylene within normal limits (18 μL/L) Acetylene exceeds normal limits (1 μL/L). Indication of high temperature, high energy discharge, or arcing activity. Carbon Monoxide within normal limits (161 µL/L) Carbon Dioxide within normal limits (5000 µL/L) CO2/CO Ratio is only applicable when CO2 greater than 5000 and CO greater than 500. Gas generation rates are normal. See Manufacturer's Recommendation.. (Furans) DP: >1003, Age: <1.0, 2FurylAldehyde: < 10 , 5-HydroxyMethylFuralde: < 10 , 2ActeylFuran: < 10, 5-Methyl-2-Furaldehyde: 21, 2-FurylAlchohol: < 10

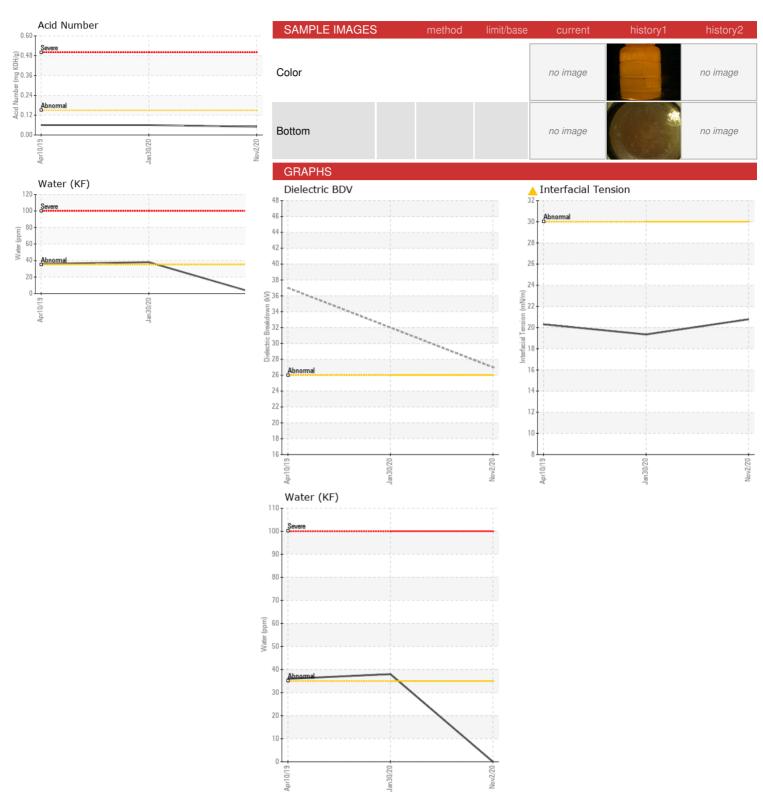
Fluid Condition

IFT: Diagnostic not applicable. AN: Diagnostic not applicable. Color: See Manufacturer's Recommendation. See Manufacturer's Recommendation..

Sample Number Client Info WC05119928 WC04901386 WC125125 Sample Date Client Info 02 Nov 2020 30 Jan 2020 10 Apr 201 Machine Age yrs Client Info 0 0 3 Oil Age yrs Client Info 0 0 3 Oil Changed Client Info N/A N/A N/A Not Chang Sample Status Image: Contact Info N/A N/A N/A Not Chang CONTAMINANTS method Imitibase current history1 history1 Water % ASTM D6304 >0.0035 0.004 0.004 ppm Water ppm Mastm D6304 >35 0 38 36 DISSOLVED GAS ANALYSIS (DGA) method limit/base current history1 history1 DGA - H2 ppm "ASTM D6312(e) 25 35 38 DGA - N2 ppm "ASTM D6312(e) 59601 67115 60322 DGA - CO2 pp	CAMPLE INCOR	AATION	m o ble e el	limit/le e e e	O	history	biotom 0
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Precipitate scalar *Visual NONE NONE NONE NONE Silt scalar *Visual NONE NONE NONE NONE Debris scalar *Visual NONE NONE NONE NONE Sand/Dirt scalar *Visual NONE NONE NONE NONE Appearance scalar *Visual NORML NOR	White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
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ASTM Color scalar ASTM D1500(e) L0.5 L0.5 1.5			. ,				
	ASTM Color	scalar	ASTM D1500(e)		L0.5	L0.5	1.5



OIL ANALYSIS REPORT





Laboratory Sample No. Lab Number Unique Number : 9260192

: WC05119928 : 05119928

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 19 Nov 2020 Diagnosed

: 02 Oct 2023 Diagnostician : System

Test Package : TRF 3 (Additional Tests: PrtCount)

To discuss this sample report, contact Customer Service at 1-800-237-1369.

* - Denotes test methods that are outside of the ISO 17025 scope of accreditation.

TORAY CARBON FIBERS AMERICA INC

2202 MOORE DUNCAN HWY MOORE, SC

US 29369 Contact: WILLIAM REYNOLDS WILLIAM.REYNOLDS@TORAYCMA.COM

T: (850)339-1252

Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)