



OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	ABNORMAL
FLUID CONDITION	ABNORMAL

Area

[413143720]

Machine Id

1000146926 - 7380-160 (S/N G1866-1)

Component

Transformer Oil

Fluid

ENVIROTEMP FR3 FLUID (1960 LTR)

RECOMMENDATION

Interfacial Tension result is low and is likely leading to the internal arcing. We recommend an early resample to monitor this condition.

WEAR

(not applicable)

CONTAMINATION

*** PLEASE NOTE: The stop-cock leaked on the syringe and there was insufficient sample for DGA ***

FLUID CONDITION

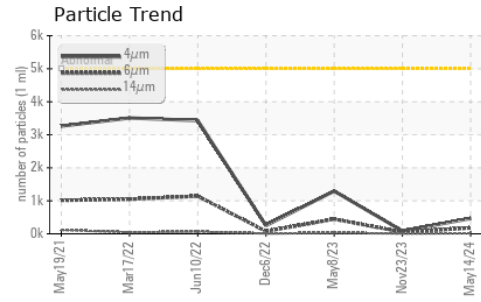
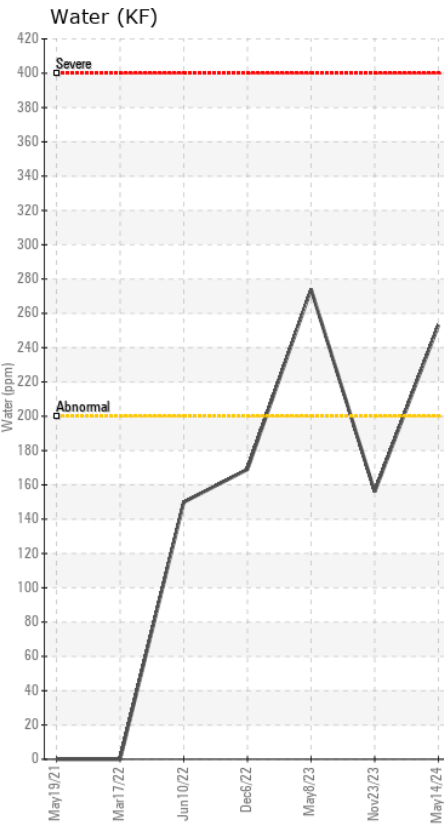
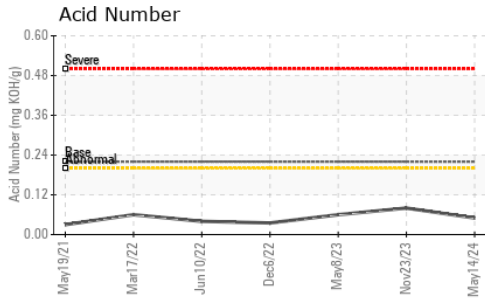
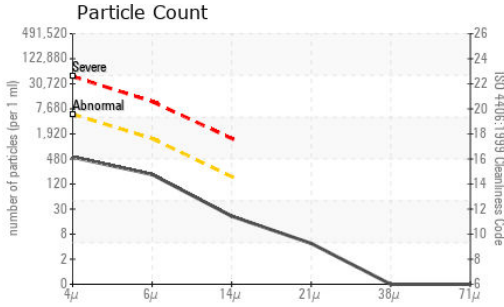
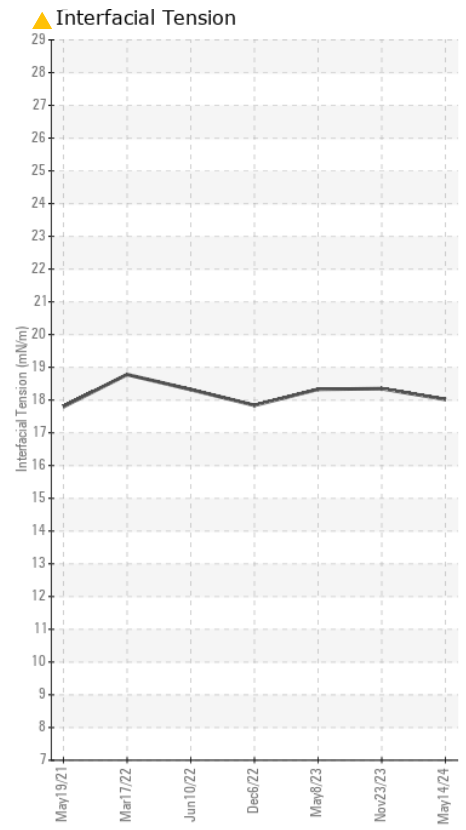
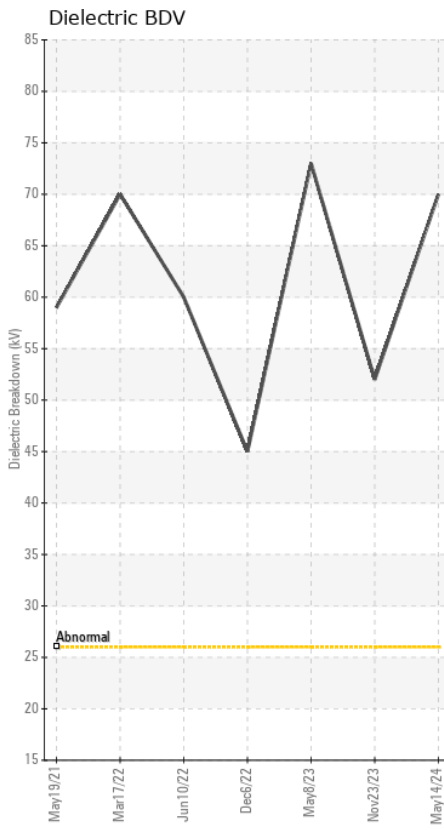
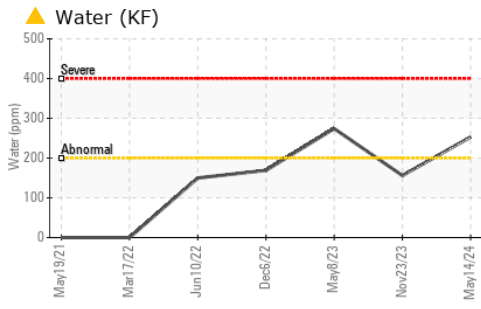
The condition of the transformer oil is acceptable for the time in service.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		WC0909163	WC0882004	WC0812616
Sample Date		Client Info		14 May 2024	23 Nov 2023	08 May 2023
Machine Age	hrs	Client Info		0	0	0
Oil Age	hrs	Client Info		0	0	0
Filter Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		N/A	N/A	N/A
Filter Changed		Client Info		N/A	N/A	N/A
Sample Status				ABNORMAL	SEVERE	ABNORMAL

White Metal	scalar	Visual*	NONE	NONE	NONE	NONE
Yellow Metal	scalar	Visual*	NONE	NONE	NONE	NONE

Water	%	ASTM D6304*	>0.02	0.025	0.015	▲ 0.027
ppm Water	ppm	ASTM D6304*	>200	▲ 253	156	▲ 274.0
DGA - H2	ppm	ASTM D3612(e)*		---	5	---
DGA - O2	ppm	ASTM D3612(e)*		---	789	---
DGA - N2	ppm	ASTM D3612(e)*		---	46253	---
DGA - CO	ppm	ASTM D3612(e)*		---	53	---
DGA - CO2	ppm	ASTM D3612(e)*		---	2570	---
DGA - Methane	ppm	ASTM D3612(e)*		---	2	---
DGA - Acetylene	ppm	ASTM D3612(e)*		---	0	---
DGA - Ethylene	ppm	ASTM D3612(e)*		---	7	---
DGA - Ethane	ppm	ASTM D3612(e)*		---	▲ 1025	---
DGA - Total Gas Content	%	ASTM D3612(e)*		---	50704	---
DGA - Total Combustible Gas	ppm	ASTM D3612(e)*		---	▲ 1092	---
Particles >4µm		ASTM D7647	>5000	466	85	1295
Particles >6µm		ASTM D7647	>1300	179	50	445
Particles >14µm		ASTM D7647	>160	18	7	28
Particles >21µm		ASTM D7647	>40	4	2	6
Particles >38µm		ASTM D7647	>10	0	1	1
Particles >71µm		ASTM D7647	>3	0	0	0
Oil Cleanliness		ISO 4406 (c)	>19/17/14	16/15/11	14/13/10	17/16/12
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	NORML	NORML	NORML
Odor	scalar	Visual*	NORML	NORML	NORML	NORML

Acid Number (AN)	mg KOH/g	ASTM D974*	0.22	0.05	0.08	▲ 0.06
Specific Gravity		ASTM D1298 *	0.92	0.922	0.921	0.922
Dielectric Breakdown	kV	ASTM D3612(e)*		70	52	73
Interfacial Tension	mN/m	ASTM D971(e)*		▲ 18.02	▲ 18.35	▲ 18.33
ASTM Color	scalar	ASTM D1500*		<1.5	1.0	L1.0



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : WC0909163 **Received** : 16 May 2024
Lab Number : 02636244 **Tested** : 21 May 2024
Unique Number : 5785406 **Diagnosed** : 12 Jun 2024 - Bill Quesnel
Test Package : TRF 2 (Additional Tests: PrtCount)

To discuss this sample report, contact Customer Service at 1-800-268-2131.
 Test denoted (*) outside scope of accreditation, (m) method modified, (e) tested at external lab.
 Validity of results and interpretation are based on the sample and information as supplied.

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