



# OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Area

[413143721]

Machine Id

1000029709 - 7380-165 (S/N G16097-1)

Component

Transformer Oil

Fluid

ENVIROTEMP FR3 FLUID (2235 LTR)

## RECOMMENDATION

Resample at the next service interval to monitor. DGA could not be performed as syringes leaked during transit.

## WEAR

(not applicable)

## CONTAMINATION

The system cleanliness is acceptable for your target ISO 4406 cleanliness code. The water content is negligible. The system and fluid cleanliness is acceptable.

## FLUID CONDITION

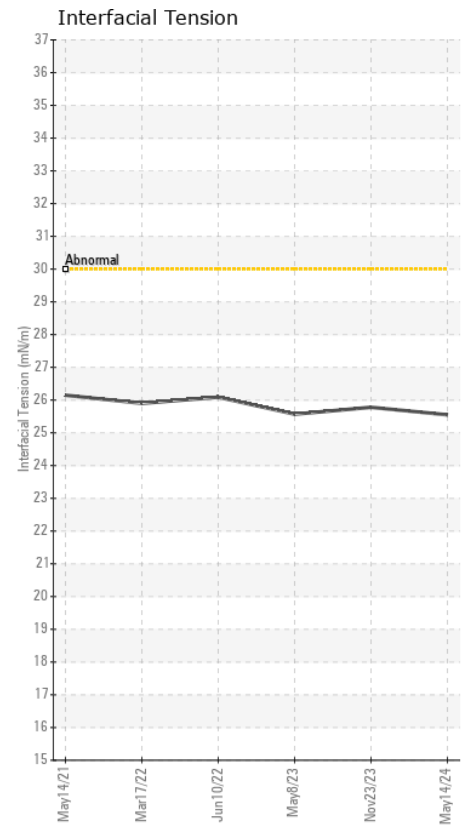
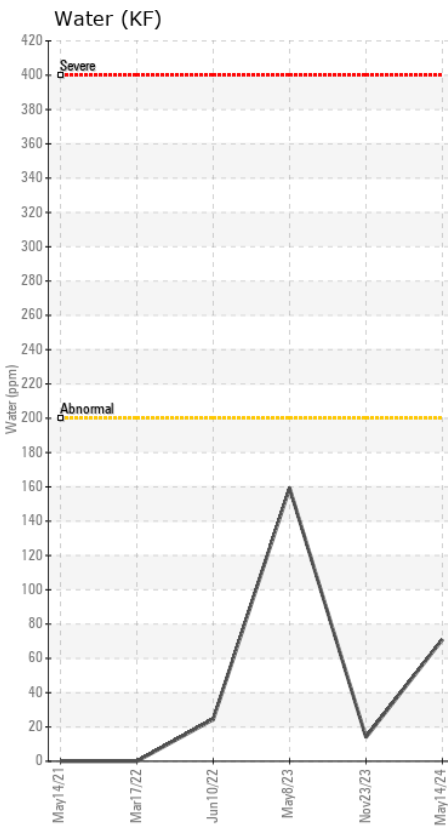
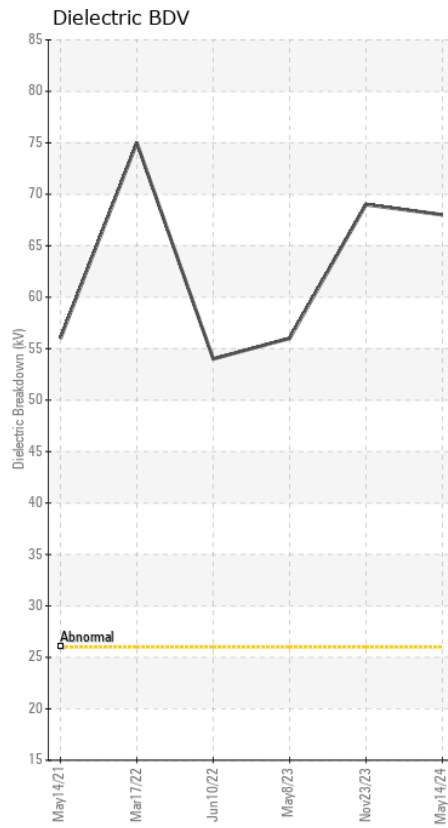
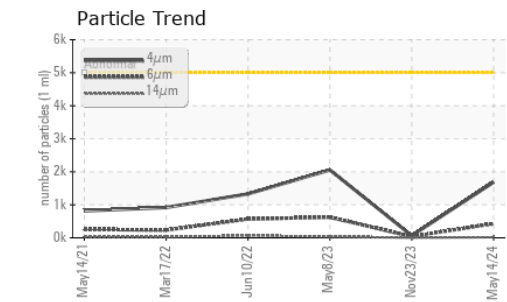
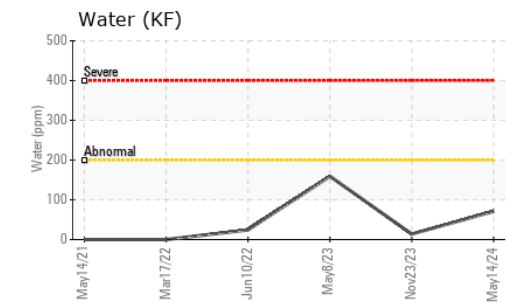
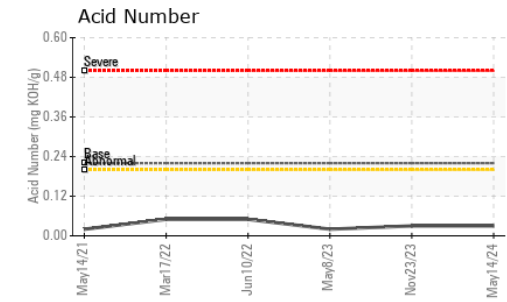
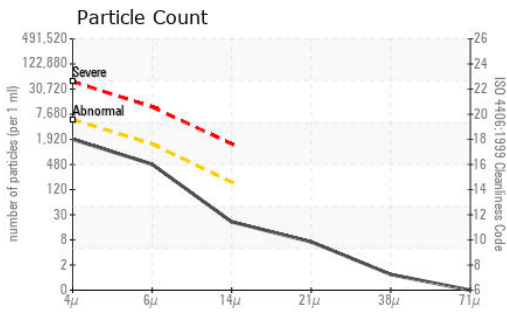
The AN level is acceptable for this fluid. The condition of the transformer oil is suitable for further service.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		WC0909164	WC0882005	WC0812617
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				NORMAL	SEVERE	ABNORMAL

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

Water	%	ASTM D6304*	>0.02	0.007	0.001	0.015
ppm Water	ppm	ASTM D6304*	>200	71	14	159.3
DGA - H2	ppm	ASTM D3612(e)*		---	23	19
DGA - O2	ppm	ASTM D3612(e)*		---	364	1015
DGA - N2	ppm	ASTM D3612(e)*		---	46569	71761
DGA - CO	ppm	ASTM D3612(e)*		---	41	56
DGA - CO2	ppm	ASTM D3612(e)*		---	679	1067
DGA - Methane	ppm	ASTM D3612(e)*		---	4	4
DGA - Acetylene	ppm	ASTM D3612(e)*		---	0	0
DGA - Ethylene	ppm	ASTM D3612(e)*		---	6	3
DGA - Ethane	ppm	ASTM D3612(e)*		---	▲ 198	▲ 141
DGA - Total Gas Content	%	ASTM D3612(e)*		---	47884	74066
DGA - Total Combustible Gas	ppm	ASTM D3612(e)*		---	272	223
Particles >4µm		ASTM D7647	>5000	1685	63	2056
Particles >6µm		ASTM D7647	>1300	427	39	626
Particles >14µm		ASTM D7647	>160	18	4	33
Particles >21µm		ASTM D7647	>40	6	1	7
Particles >38µm		ASTM D7647	>10	1	0	0
Particles >71µm		ASTM D7647	>3	0	0	0
Oil Cleanliness		ISO 4406 (c)	>19/17/14	18/16/11	13/12/9	18/16/12
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	0.03	0.03	0.02
Specific Gravity		ASTM D1298 *	0.92	0.920	0.919	0.920
Dielectric Breakdown	kV	ASTM D3612(e)*		68	69	56
Interfacial Tension	mN/m	ASTM D971(e)*		25.55	25.78	25.57
ASTM Color	scalar	ASTM D1500*		<1.0	0.5	L0.5



ISO 17025:2017  
Accredited  
Laboratory

**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9  
**Sample No.** : WC0909164  
**Lab Number** : 02636245  
**Unique Number** : 5785407  
**Test Package** : TRF 2 ( Additional Tests: PrtCount )

**Received** : 16 May 2024  
**Tested** : 21 May 2024  
**Diagnosed** : 12 Jun 2024 - Bill Quesnel

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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