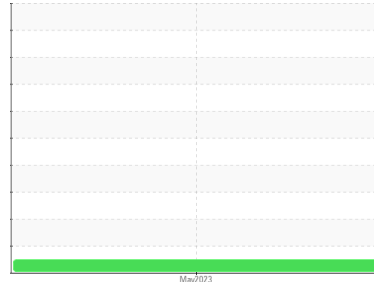




OIL ANALYSIS REPORT

Sample Rating Trend



NORMAL



Machine Id
PIONERR MARTIN BOWER

Component
Transformer Oil
Fluid
{not provided} (2700 LTR)

DIAGNOSIS

Recommendation

Resample at the next service interval to monitor. Please specify the brand, type, and viscosity of the oil on your next sample.

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. All gases at acceptable levels.

Fluid Condition

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

SAMPLE INFORMATION

method	limit/base	current	history1	history2
Sample Number	Client Info	WC0810804	---	---
Sample Date	Client Info	25 May 2023	---	---
Machine Age	hrs Client Info	0	---	---
Oil Age	hrs Client Info	0	---	---
Oil Changed	Client Info	N/A	---	---
Sample Status		NORMAL	---	---

CONTAMINANTS

method	limit/base	current	history1	history2	
Water	% ASTM D6304*	>0.0035	0.00	---	---
ppm Water	ppm ASTM D6304*	>35	0.00	---	---

FLUID CLEANLINESS

method	limit/base	current	history1	history2	
Particles >4µm	ASTM D7647	>5000	206	---	---
Particles >6µm	ASTM D7647	>1300	84	---	---
Particles >14µm	ASTM D7647	>160	8	---	---
Particles >21µm	ASTM D7647	>40	3	---	---
Particles >38µm	ASTM D7647	>10	0	---	---
Particles >71µm	ASTM D7647	>3	0	---	---
Oil Cleanliness	ISO 4406 (c)	>19/17/14	15/14/10	---	---

DISSOLVED GAS ANALYSIS (DGA)

method	limit/base	current	history1	history2	
DGA - H2	ppm ASTM D3612(e)*		2	---	---
DGA - O2	ppm ASTM D3612(e)*		11940	---	---
DGA - N2	ppm ASTM D3612(e)*		75011	---	---
DGA - CO	ppm ASTM D3612(e)*		190	---	---
DGA - CO2	ppm ASTM D3612(e)*		827	---	---
DGA - Methane	ppm ASTM D3612(e)*		3	---	---
DGA - Acetylene	ppm ASTM D3612(e)*		0	---	---
DGA - Ethylene	ppm ASTM D3612(e)*		0	---	---
DGA - Ethane	ppm ASTM D3612(e)*		0	---	---
DGA - Total Gas Content	% ASTM D3612(e)*		87973	---	---
DGA - Total Combustible Gas	ppm ASTM D3612(e)*		195	---	---

FLUID DEGRADATION

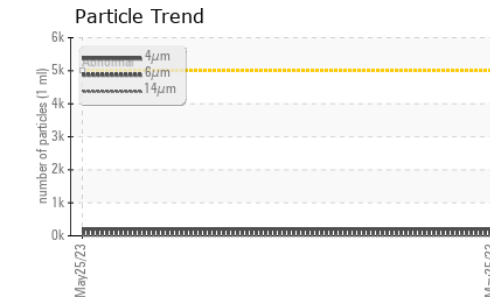
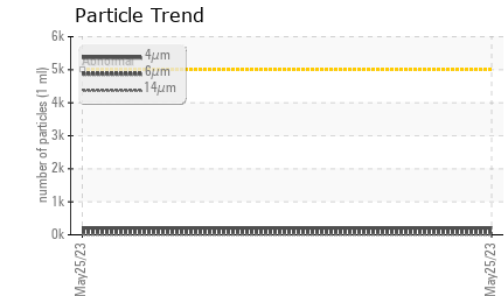
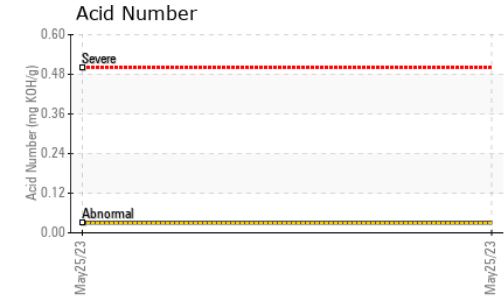
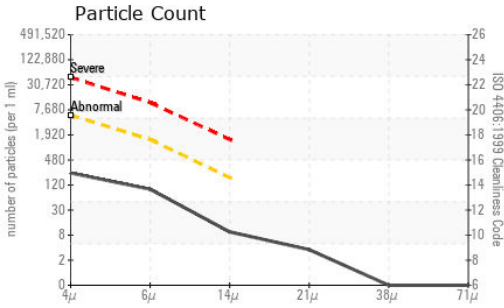
method	limit/base	current	history1	history2	
Acid Number (AN)	mg KOH/g ASTM D974*		0.03	---	---

VISUAL

method	limit/base	current	history1	history2	
White Metal	scalar Visual*	NONE	NONE	---	---
Yellow Metal	scalar Visual*	NONE	NONE	---	---
Precipitate	scalar Visual*	NONE	NONE	---	---
Silt	scalar Visual*	NONE	NONE	---	---
Debris	scalar Visual*	NONE	NONE	---	---
Sand/Dirt	scalar Visual*	NONE	NONE	---	---
Appearance	scalar Visual*	NORML	NORML	---	---
Odor	scalar Visual*	NORML	NORML	---	---



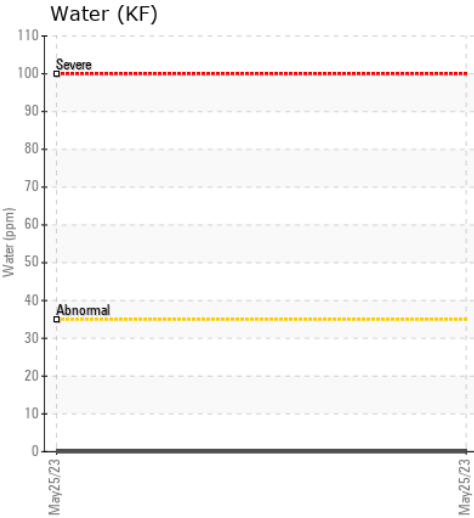
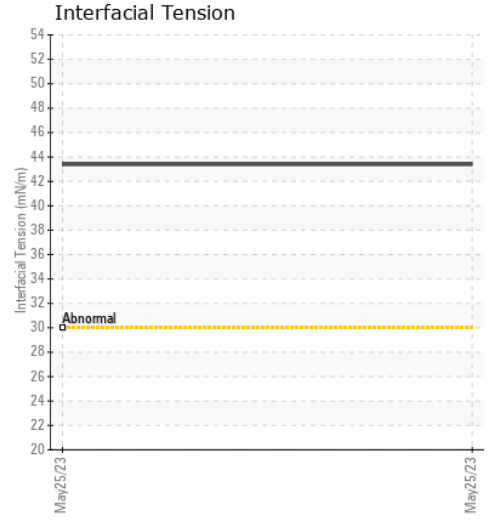
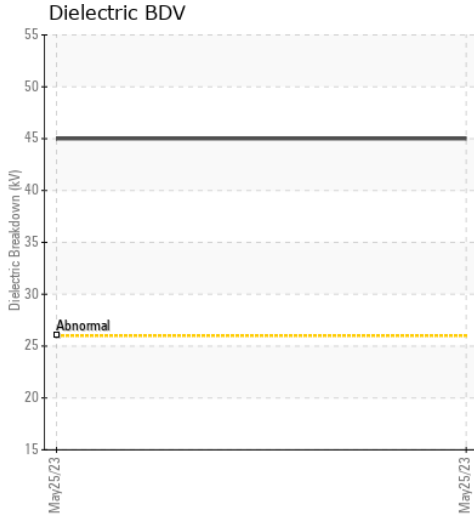
OIL ANALYSIS REPORT



FLUID PROPERTIES	method	limit/base	current	history1	history2
Specific Gravity	ASTM D4052(e)		0.885	---	---
Dielectric Breakdown	kV ASTM D3612(e)*		45	---	---
Interfacial Tension	mN/m ASTM D971(e)*		43.39	---	---
ASTM Color	scalar ASTM D1500(e)		<0.5	---	---

SAMPLE IMAGES	method	limit/base	current	history1	history2
Color				no image	no image
Bottom				no image	no image

GRAPHS



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : WC0810804 **Received** : 26 May 2023
Lab Number : **02560017** **Tested** : 02 Jun 2023
Unique Number : 5581057 **Diagnosed** : 29 Jun 2023 - Bill Quesnel
Test Package : TRF 3 (Additional Tests: PrtCount)

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 Contact: James Moore
 jmoore@urbanelectrical.ca
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 F: (905)669-6126

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.