



OIL ANALYSIS REPORT

Sample Rating Trend

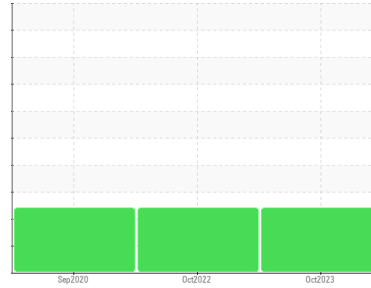
COMBUSTION



Machine Id
Pioneer GEN4TRANSFORMER (S/N 616458-4)

Component
Transformer Oil

Fluid
TRANSFORMER MINERAL API II (2260 LTR)



DIAGNOSIS

Recommendation

We recommend an early resample to monitor this condition. No other corrective action is recommended at this time. Diagnostician`s Note: Syringe only received, no sample bottle received so standard testing (IFT, acidity, dielectric, power factor) could not be tested.

Wear

{not applicable}

Contamination

Carbon Monoxide >=350 (0.035%), Carbon Dioxide >=2500 (0.25%): Thermal decomposition of cellulose.

Fluid Condition

The condition of the transformer oil is suitable for further service.

SAMPLE INFORMATION

	method	limit/base	current	history1	history2
Sample Number	Client Info		WC0850747	WC0752821	WC0500725
Sample Date	Client Info		24 Oct 2023	31 Oct 2022	25 Sep 2020
Machine Age	hrs	Client Info	0	0	0
Oil Age	hrs	Client Info	0	0	0
Oil Changed	Client Info		N/A	N/A	N/A
Sample Status			ABNORMAL	MARGINAL	ABNORMAL

CONTAMINATION

	method	limit/base	current	history1	history2
Water	WC Method	>0.0035	NEG	NEG	NEG

DISSOLVED GAS ANALYSIS (DGA)

	method	limit/base	current	history1	history2
DGA - H2	ppm	ASTM D3612(e)*	3	3	3
DGA - O2	ppm	ASTM D3612(e)*	8121	7058	11813
DGA - N2	ppm	ASTM D3612(e)*	68562	49362	81670
DGA - CO	ppm	ASTM D3612(e)*	▲ 659	▲ 464	▲ 596
DGA - CO2	ppm	ASTM D3612(e)*	▲ 4427	▲ 3500	▲ 3844
DGA - Methane	ppm	ASTM D3612(e)*	8	6	8
DGA - Acetylene	ppm	ASTM D3612(e)*	0	0	0
DGA - Ethylene	ppm	ASTM D3612(e)*	5	4	3
DGA - Ethane	ppm	ASTM D3612(e)*	1	0	0
DGA - Total Gas Content	%	ASTM D3612(e)*	81786	60397	97937
DGA - Total Combustible Gas	ppm	ASTM D3612(e)*	676	477	610

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

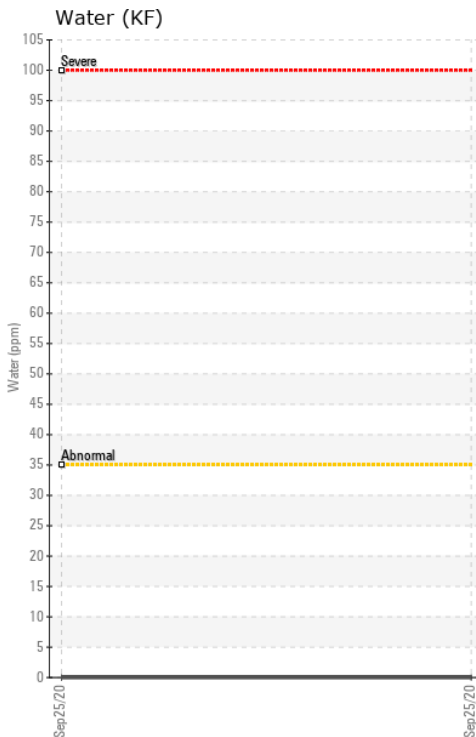
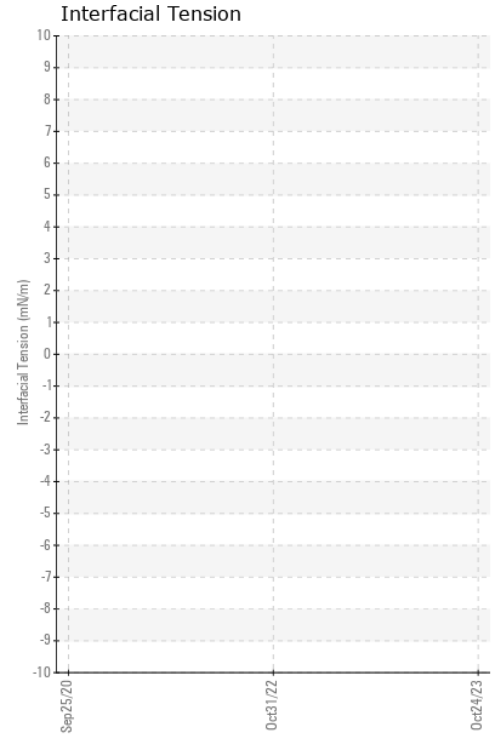
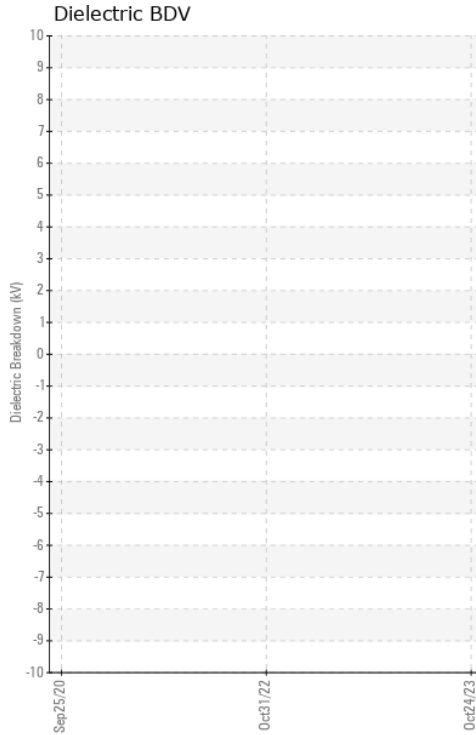
SAMPLE IMAGES

	method	limit/base	current	history1	history2
Color			<i>no image</i>		
Bottom			<i>no image</i>		



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GRAPHS



ISO 17025:2017
Accredited
Laboratory

Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : WC0850747 **Received** : 30 Oct 2023
Lab Number : 02592856 **Diagnosed** : 21 Nov 2023
Unique Number : 5669935 **Diagnostician** : Bill Quesnel
Test Package : TEST (Additional Tests: DGA)

BRODER ELECTRIC
 14 GRENFELL CRESCENT, SUITE 100
 NEPEAN, ON
 CA K2G 0G2
 Contact: Carly Joudoin
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 T: (613)224-1176
 F:

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.