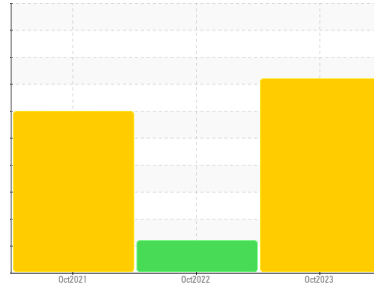




OIL ANALYSIS REPORT

Sample Rating Trend



COMBUSTION



Machine Id
PIONEER GEN 5 TRANSFORMER (S/N G14062-2)

Component
Transformer Oil
Fluid
NOT GIVEN (1935 LTR)

DIAGNOSIS

Recommendation

Advise exercise caution with this transformer.
Advise inspect windings for pinholes or punctures in the paper. Advise contact the manufacturer.
Recommend an early resample to monitor.

Wear

{not applicable}

Contamination

Hydrogen within normal limits (100 µL/L) Methane within normal limits (120 µL/L) Ethane >=65 (0.0065%): Low energy arcing in a confined space. Ethylene within normal limits (50 µL/L) Acetylene within normal limits (35 µL/L) Oxygen within normal limits (20000 µL/L) Carbon Monoxide within normal limits (350 µL/L) Carbon Dioxide within normal limits (2500 µL/L).

SAMPLE INFORMATION

	method	limit/base	current	history1	history2
Sample Number	Client Info		WC0850744	WC0752818	WC0630487
Sample Date	Client Info		04 Oct 2023	14 Oct 2022	20 Oct 2021
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			SEVERE	ABNORMAL	SEVERE

DISSOLVED GAS ANALYSIS (DGA)

	method	limit/base	current	history1	history2
DGA - H2	ppm	ASTM D3612(e)*	▲ 102	57	18
DGA - O2	ppm	ASTM D3612(e)*	327	289	232
DGA - N2	ppm	ASTM D3612(e)*	67954	64699	82950
DGA - CO	ppm	ASTM D3612(e)*	213	190	208
DGA - CO2	ppm	ASTM D3612(e)*	1868	1572	1908
DGA - Methane	ppm	ASTM D3612(e)*	95	74	88
DGA - Acetylene	ppm	ASTM D3612(e)*	0	0	0
DGA - Ethylene	ppm	ASTM D3612(e)*	14	12	18
DGA - Ethane	ppm	ASTM D3612(e)*	● 179	▲ 140	● 197
DGA - Total Gas Content	%	ASTM D3612(e)*	70752	67033	85619
DGA - Total Combustible Gas	ppm	ASTM D3612(e)*	603	473	529

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	---

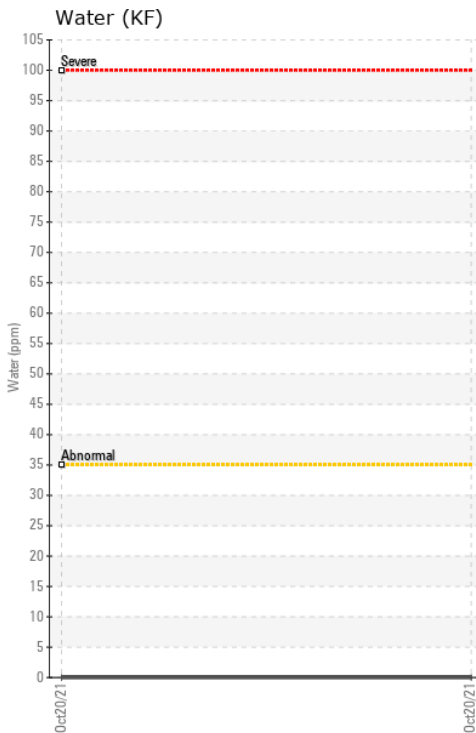
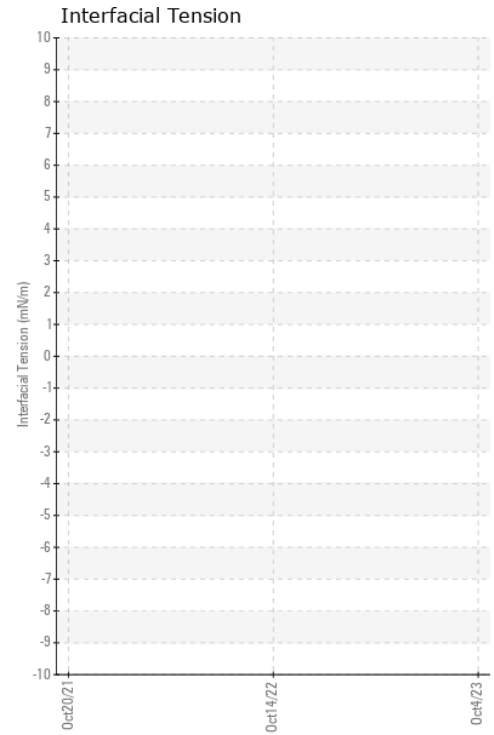
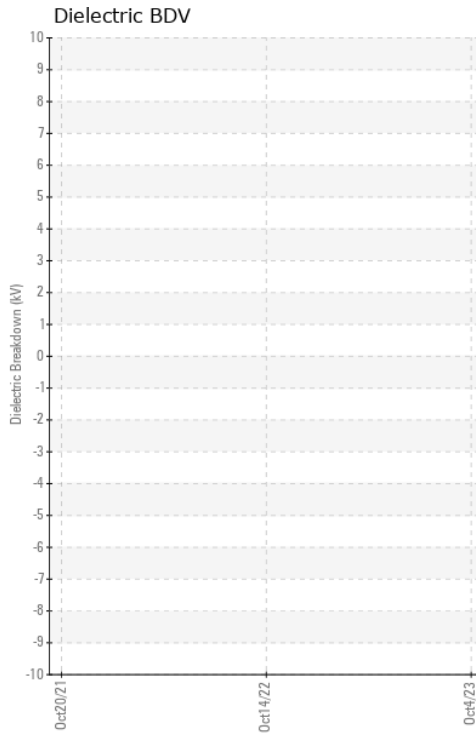
SAMPLE IMAGES

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



OIL ANALYSIS REPORT

GRAPHS



ISO 17025:2017
Accredited
Laboratory

Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : WC0850744 **Received** : 12 Oct 2023
Lab Number : 02588789 **Diagnosed** : 02 Nov 2023
Unique Number : 5657855 **Diagnostician** : Bill Quesnel
Test Package : TEST (Additional Tests: DGA)

BRODER ELECTRIC
 14 GRENFELL CRESCENT, SUITE 100
 NEPEAN, ON
 CA K2G 0G2
 Contact: Carly Joudoin
 carly@broderelectric.ca
 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.