



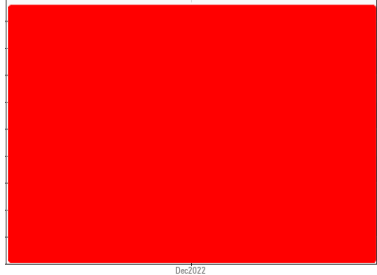
PROBLEM SUMMARY

Sample Rating Trend

COMBUSTION

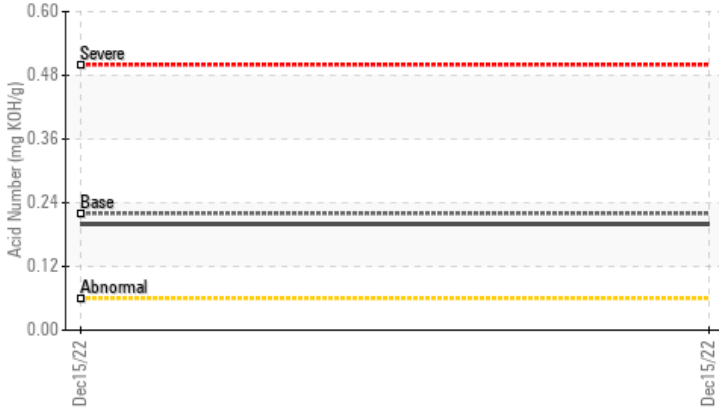


Area
[45665]
 Machine Id
PROLEC GE TN11605-T3C22 (S/N M16E15908)
 Component
Main Transformer Oil
 Fluid
ENVIROTEMP FR3 FLUID (1808 GAL)



COMPONENT CONDITION SUMMARY

▲ Acid Number



RECOMMENDATION

We recommend an early resample to monitor this condition.

PROBLEMATIC TEST RESULTS

Sample Status				SEVERE	---	---
DGA - CO2	ppm	ASTM D3612(e)*		▲ 6939	---	---
DGA - Ethane	ppm	ASTM D3612(e)*		● 798	---	---
DGA - Total Combustible Gas	ppm	ASTM D3612(e)*		▲ 880	---	---
Acid Number (AN)	mg KOH/g	ASTM D974*	0.22	▲ 0.20	---	---

Customer Id: ENE271OTT
 Sample No.: WC0592377
 Lab Number: 02531373
 Test Package: TRF 2



To manage this report scan the QR code

To discuss the diagnosis or test data:
 Bill Quesnel CLS, OMA II, MLA-III, LLA-I +1
 (289)291-4641 x4641
Bill.Quesnel@wearcheck.com

To change component or sample information:
 Gloria Gonzalez +1 (289)291-4643 x4643
gloria.gonzalez@wearcheck.com

RECOMMENDED ACTIONS

Action	Status	Date	Done By	Description
Resample	---	---	?	We recommend an early resample to monitor this condition.

HISTORICAL DIAGNOSIS



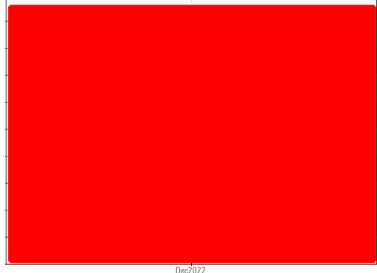
OIL ANALYSIS REPORT

Sample Rating Trend

COMBUSTION



Area
[45665]
 Machine Id
PROLEC GE TN11605-T3C22 (S/N M16E15908)
 Component
Main Transformer Oil
 Fluid
ENVIROTEMP FR3 FLUID (1808 GAL)



DIAGNOSIS

Recommendation
 We recommend an early resample to monitor this condition.

Wear
 {not applicable}

Contamination
 Ethane level exceeded (>65, 0.0065%) indicating low energy arcing in a confined space. Carbon Dioxide levels exceeded (>2500, 0.25%). General conductor overheating indicated.

Fluid Condition
 The AN level is at the top-end of the recommended limit.

SAMPLE INFORMATION		method	limit/base	current	history1	history2
Sample Number	Client Info			WC0592377	---	---
Sample Date	Client Info			15 Dec 2022	---	---
Machine Age	hrs	Client Info		0	---	---
Oil Age	hrs	Client Info		0	---	---
Oil Changed	Client Info			N/A	---	---
Sample Status				SEVERE	---	---

CONTAMINANTS		method	limit/base	current	history1	history2
Water	%	ASTM D6304*	>0.02	0.011	---	---
ppm Water	ppm	ASTM D6304*	>200	119.1	---	---

FLUID CLEANLINESS		method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>5000	1520	---	---
Particles >6µm		ASTM D7647	>1300	378	---	---
Particles >14µm		ASTM D7647	>160	25	---	---
Particles >21µm		ASTM D7647	>40	7	---	---
Particles >38µm		ASTM D7647	>10	2	---	---
Particles >71µm		ASTM D7647	>3	2	---	---
Oil Cleanliness		ISO 4406 (c)	>19/17/14	18/16/12	---	---

DISSOLVED GAS ANALYSIS (DGA)		method	limit/base	current	history1	history2
DGA - H2	ppm	ASTM D3612(e)*		12	---	---
DGA - O2	ppm	ASTM D3612(e)*		1387	---	---
DGA - N2	ppm	ASTM D3612(e)*		49183	---	---
DGA - CO	ppm	ASTM D3612(e)*		61	---	---
DGA - CO2	ppm	ASTM D3612(e)*		6939	---	---
DGA - Methane	ppm	ASTM D3612(e)*		4	---	---
DGA - Acetylene	ppm	ASTM D3612(e)*		0	---	---
DGA - Ethylene	ppm	ASTM D3612(e)*		5	---	---
DGA - Ethane	ppm	ASTM D3612(e)*		798	---	---
DGA - Total Gas Content	%	ASTM D3612(e)*		58389	---	---
DGA - Total Combustible Gas	ppm	ASTM D3612(e)*		880	---	---

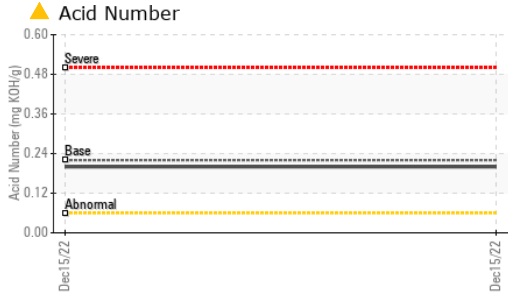
FLUID DEGRADATION		method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D974*	0.22	0.20	---	---

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	---	---

FLUID PROPERTIES		method	limit/base	current	history1	history2
Specific Gravity		ASTM D4052(e)	0.92	0.920	---	---
Dielectric Breakdown	kV	ASTM D3612(e)*		56	---	---
ASTM Color	scalar	ASTM D1500(e)		<1.5	---	---

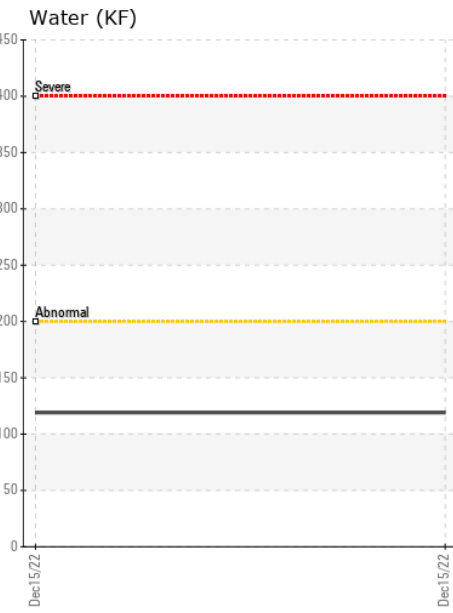
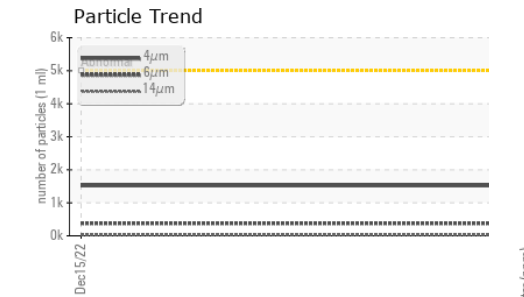
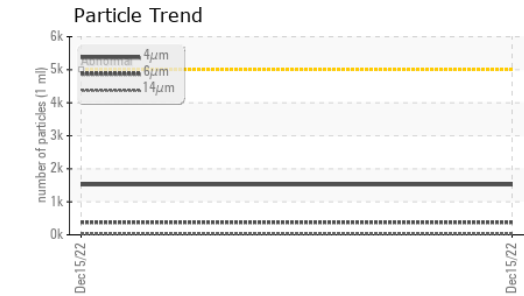
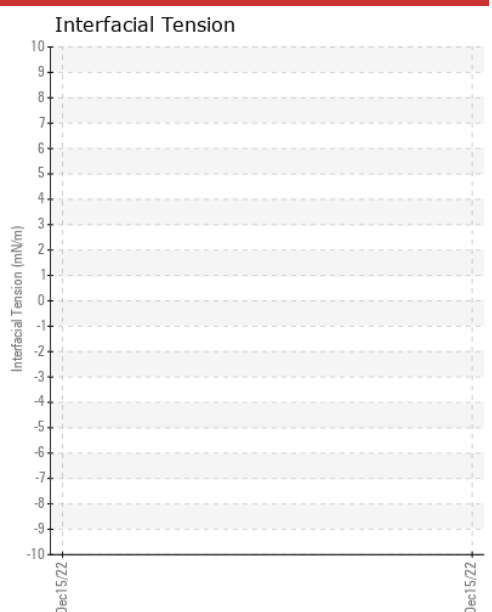
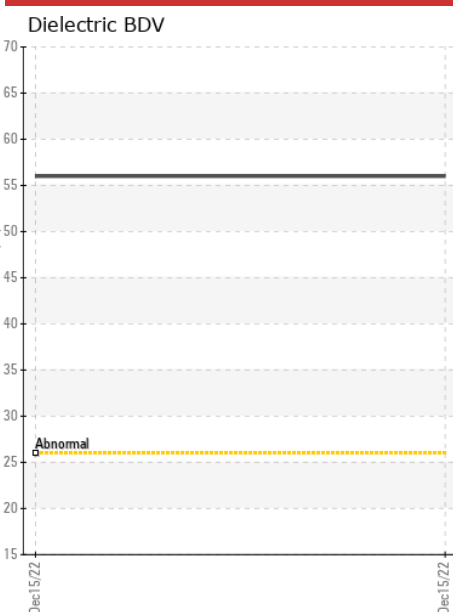
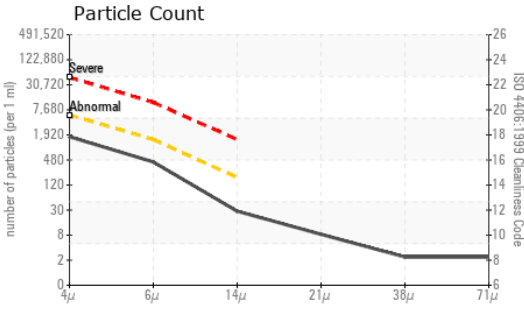


OIL ANALYSIS REPORT



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 **Chaudiere Hydro LP - Energy Ottawa**
Sample No. : WC0592377 **Received** : 04 Jan 2023 4 Booth Street
Lab Number : **02531373** **Diagnosed** : 19 Jan 2023 Ottawa, ON
Unique Number : 5512372 **Diagnostician** : Bill Quesnel CA K1R 6K8
Test Package : TRF 2 (Additional Tests: PrtCount) Contact: Cheryl Gharib
info@portagepower.com
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.