



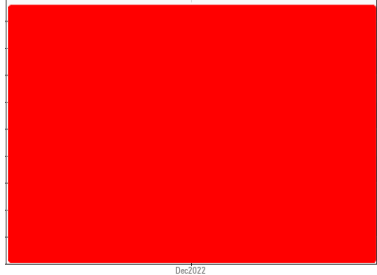
# PROBLEM SUMMARY

Sample Rating Trend

COMBUSTION

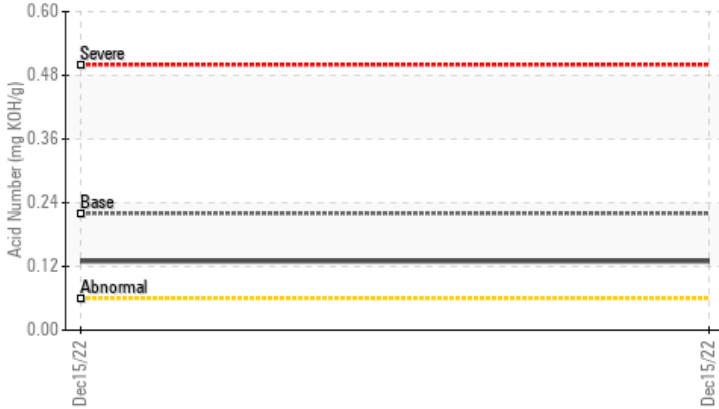


Area  
**[49603]**  
 Machine Id  
**PROLEC GE TN11605-T2C22 (S/N M16E15845)**  
 Component  
**Main Transformer Oil**  
 Fluid  
**ENVIROTEMP FR3 FLUID (1808 GAL)**



## 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)*		▲ 8098	---	---
DGA - Ethane	ppm	ASTM D3612(e)*		● 978	---	---
DGA - Total Combustible Gas	ppm	ASTM D3612(e)*		▲ 1105	---	---
Acid Number (AN)	mg KOH/g	ASTM D974*	0.22	▲ 0.13	---	---

Customer Id: ENE271OTT  
 Sample No.: WC0592375  
 Lab Number: 02531371  
 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](mailto:Bill.Quesnel@wearcheck.com)

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

## RECOMMENDED ACTIONS

Action	Status	Date	Done By	Description
Resample	---	---	?	We recommend an early resample to monitor this condition.
Check Breathers	---	---	?	The air breather requires service. If unrated, we recommend that you replace with a suitable micron rated and/or desiccant air breather. If rated, we recommend that you service/replace the breather.

## HISTORICAL DIAGNOSIS



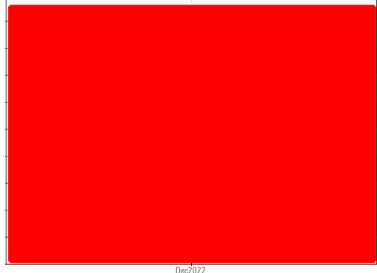
# OIL ANALYSIS REPORT

Sample Rating Trend

COMBUSTION



Area  
**[49603]**  
 Machine Id  
**PROLEC GE TN11605-T2C22 (S/N M16E15845)**  
 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		<b>WC0592375</b>	---	---
Sample Date	Client Info		<b>15 Dec 2022</b>	---	---
Machine Age	hrs	Client Info	<b>0</b>	---	---
Oil Age	hrs	Client Info	<b>0</b>	---	---
Oil Changed	Client Info		<b>N/A</b>	---	---
Sample Status			<b>SEVERE</b>	---	---

## CONTAMINANTS

	method	limit/base	current	history1	history2
Water	%	ASTM D6304*	>0.02	<b>0.008</b>	---
ppm Water	ppm	ASTM D6304*	>200	<b>86.8</b>	---

## FLUID CLEANLINESS

	method	limit/base	current	history1	history2
Particles >4µm	ASTM D7647	>5000	<b>2268</b>	---	---
Particles >6µm	ASTM D7647	>1300	<b>572</b>	---	---
Particles >14µm	ASTM D7647	>160	<b>40</b>	---	---
Particles >21µm	ASTM D7647	>40	<b>11</b>	---	---
Particles >38µm	ASTM D7647	>10	<b>5</b>	---	---
Particles >71µm	ASTM D7647	>3	<b>4</b>	---	---
Oil Cleanliness	ISO 4406 (c)	>19/17/14	<b>18/16/12</b>	---	---

## DISSOLVED GAS ANALYSIS (DGA)

	method	limit/base	current	history1	history2
DGA - H2	ppm	ASTM D3612(e)*	<b>24</b>	---	---
DGA - O2	ppm	ASTM D3612(e)*	<b>603</b>	---	---
DGA - N2	ppm	ASTM D3612(e)*	<b>52996</b>	---	---
DGA - CO	ppm	ASTM D3612(e)*	<b>92</b>	---	---
DGA - CO2	ppm	ASTM D3612(e)*	<b>8098</b>	---	---
DGA - Methane	ppm	ASTM D3612(e)*	<b>6</b>	---	---
DGA - Acetylene	ppm	ASTM D3612(e)*	<b>0</b>	---	---
DGA - Ethylene	ppm	ASTM D3612(e)*	<b>5</b>	---	---
DGA - Ethane	ppm	ASTM D3612(e)*	<b>978</b>	---	---
DGA - Total Gas Content	%	ASTM D3612(e)*	<b>62802</b>	---	---
DGA - Total Combustible Gas	ppm	ASTM D3612(e)*	<b>1105</b>	---	---

## FLUID DEGRADATION

	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D974*	0.22	<b>0.13</b>	---

## VISUAL

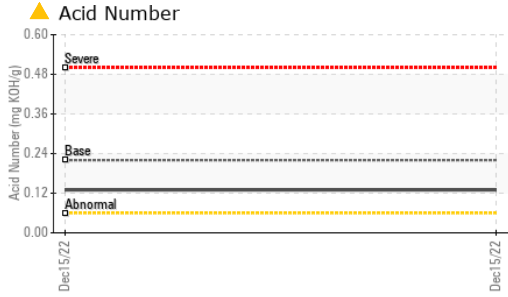
	method	limit/base	current	history1	history2
White Metal	scalar	Visual*	NONE	<b>NONE</b>	---
Yellow Metal	scalar	Visual*	NONE	<b>NONE</b>	---
Precipitate	scalar	Visual*	NONE	<b>NONE</b>	---
Silt	scalar	Visual*	NONE	<b>NONE</b>	---
Debris	scalar	Visual*	NONE	<b>NONE</b>	---
Sand/Dirt	scalar	Visual*	NONE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

## FLUID PROPERTIES

	method	limit/base	current	history1	history2
Specific Gravity	ASTM D4052(e)	0.92	<b>0.921</b>	---	---
Dielectric Breakdown	kV	ASTM D3612(e)*	<b>50</b>	---	---
ASTM Color	scalar	ASTM D1500(e)	<b>&lt;1.5</b>	---	---

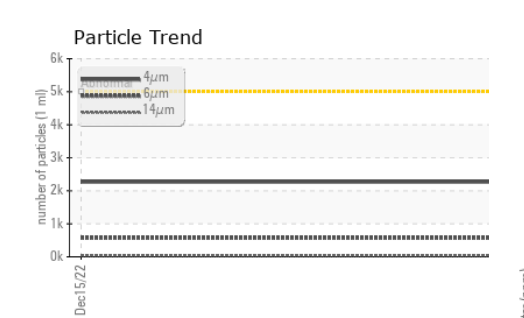
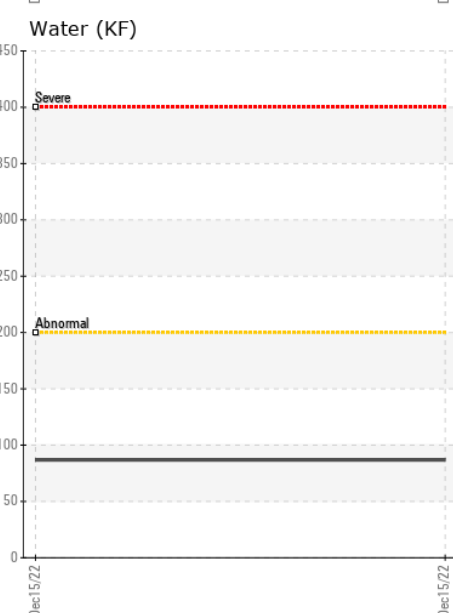
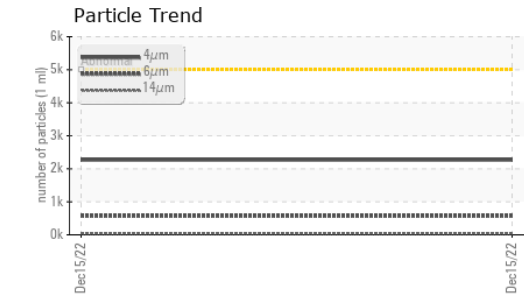
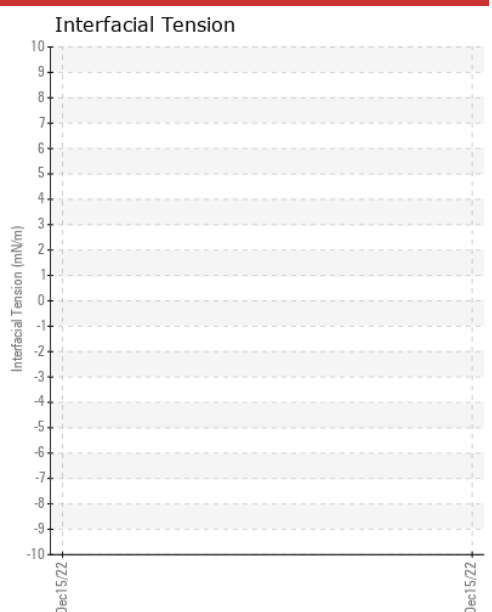
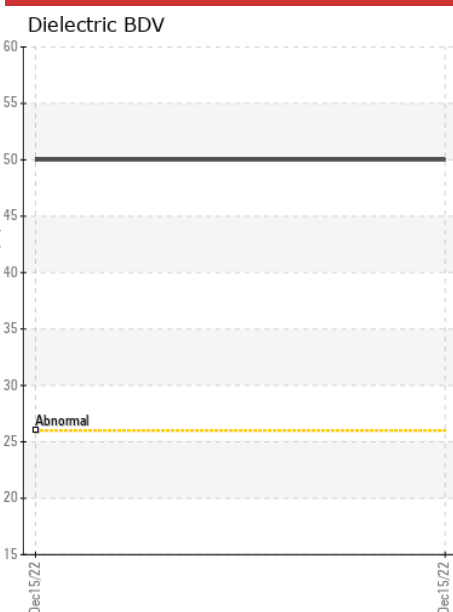
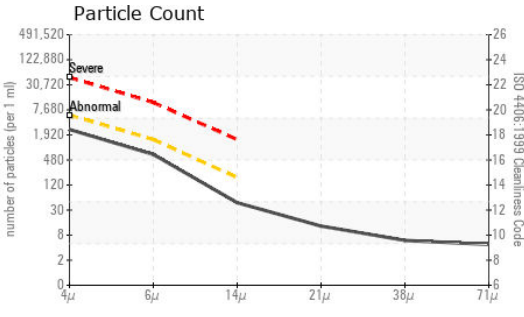


# OIL ANALYSIS REPORT



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.** : WC0592375 **Received** : 04 Jan 2023 4 Booth Street  
**Lab Number** : **02531371** **Diagnosed** : 19 Jan 2023 Ottawa, ON  
**Unique Number** : 5512370 **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.*