



# PROBLEM SUMMARY

Sample Rating Trend



GLYCOL



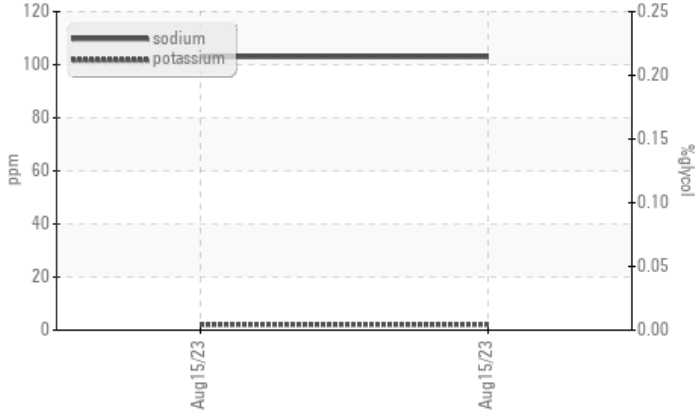
Machine Id  
**FL0309**

Component  
**Propane Engine**

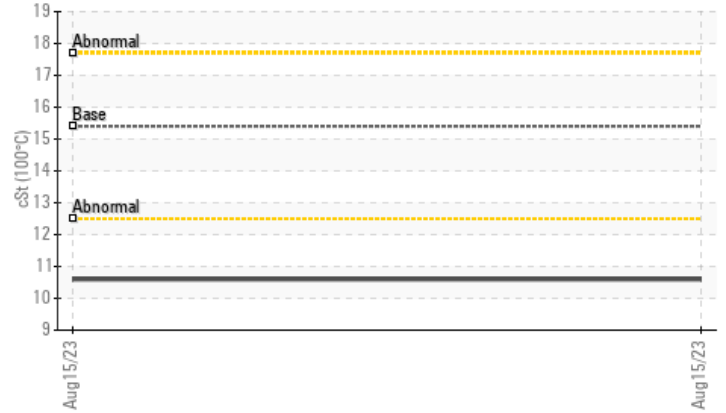
Fluid  
**PETRO CANADA DURON SHP 15W40 (--- GAL)**

## COMPONENT CONDITION SUMMARY

### ▲ Glycol Contamination



### ▲ Viscosity @ 100°C



## RECOMMENDATION

Oil and filter change at the time of sampling has been noted. Resample at the next service interval to monitor. ( Customer Sample Comment: This unit it a propane forklift )

## PROBLEMATIC TEST RESULTS

Sample Status				<b>ABNORMAL</b>	---	---
Sodium	ppm	ASTM D5185m		▲ 103	---	---
Visc @ 100°C	cSt	ASTM D445	15.4	▲ 10.6	---	---

Customer Id: GFL411  
Sample No.: GFL0085625  
Lab Number: 05930236  
Test Package: FLEET



To manage this report scan the QR code

To discuss the diagnosis or test data:  
Jonathan Hester +1 919-379-4092 x4092  
[jhester@wearcheckusa.com](mailto:jhester@wearcheckusa.com)

To change component or sample information:  
Customer Service +1 1-800-237-1369  
[customerservice@wearcheck.com](mailto:customerservice@wearcheck.com)

## RECOMMENDED ACTIONS

Action	Status	Date	Done By	Description
Change Fluid	---	---	?	Oil and filter change at the time of sampling has been noted.
Change Filter	---	---	?	Oil and filter change at the time of sampling has been noted.

## HISTORICAL DIAGNOSIS



# OIL ANALYSIS REPORT

Sample Rating Trend



**GLYCOL**



Machine Id  
**FL0309**

Component  
**Propane Engine**

Fluid  
**PETRO CANADA DURON SHP 15W40 (--- GAL)**

## DIAGNOSIS

### ▲ Recommendation

Oil and filter change at the time of sampling has been noted. Resample at the next service interval to monitor. ( Customer Sample Comment: This unit it a propane forklift )

### Wear

All component wear rates are normal.

### Contamination

Sodium and/or potassium levels are high. Test for glycol is negative.

### ▲ Fluid Condition

The oil viscosity is lower than normal. The BN result indicates that there is suitable alkalinity remaining in the oil. Confirm oil type.

## SAMPLE INFORMATION

method	limit/base	current	history1	history2
Sample Number	Client Info	<b>GFL0085625</b>	---	---
Sample Date	Client Info	<b>15 Aug 2023</b>	---	---
Machine Age	hrs Client Info	<b>7415</b>	---	---
Oil Age	hrs Client Info	<b>25</b>	---	---
Oil Changed	Client Info	<b>Changed</b>	---	---
Sample Status		<b>ABNORMAL</b>	---	---

## WEAR METALS

method	limit/base	current	history1	history2
Iron ppm ASTM D5185m	>100	<b>27</b>	---	---
Chromium ppm ASTM D5185m	>25	<b>1</b>	---	---
Nickel ppm ASTM D5185m	>5	<b>0</b>	---	---
Titanium ppm ASTM D5185m		<b>2</b>	---	---
Silver ppm ASTM D5185m	>5	<b>0</b>	---	---
Aluminum ppm ASTM D5185m	>20	<b>4</b>	---	---
Lead ppm ASTM D5185m	>25	<b>2</b>	---	---
Copper ppm ASTM D5185m	>35	<b>1</b>	---	---
Tin ppm ASTM D5185m	>8	<b>0</b>	---	---
Vanadium ppm ASTM D5185m		<b>&lt;1</b>	---	---
Cadmium ppm ASTM D5185m		<b>0</b>	---	---

## ADDITIVES

method	limit/base	current	history1	history2
Boron ppm ASTM D5185m	0	<b>140</b>	---	---
Barium ppm ASTM D5185m	0	<b>0</b>	---	---
Molybdenum ppm ASTM D5185m	60	<b>292</b>	---	---
Manganese ppm ASTM D5185m	0	<b>&lt;1</b>	---	---
Magnesium ppm ASTM D5185m	1010	<b>345</b>	---	---
Calcium ppm ASTM D5185m	1070	<b>1568</b>	---	---
Phosphorus ppm ASTM D5185m	1150	<b>676</b>	---	---
Zinc ppm ASTM D5185m	1270	<b>831</b>	---	---
Sulfur ppm ASTM D5185m	2060	<b>3632</b>	---	---

## CONTAMINANTS

method	limit/base	current	history1	history2
Silicon ppm ASTM D5185m	>50	<b>14</b>	---	---
Sodium ppm ASTM D5185m		<b>▲ 103</b>	---	---
Potassium ppm ASTM D5185m	>20	<b>2</b>	---	---

## INFRA-RED

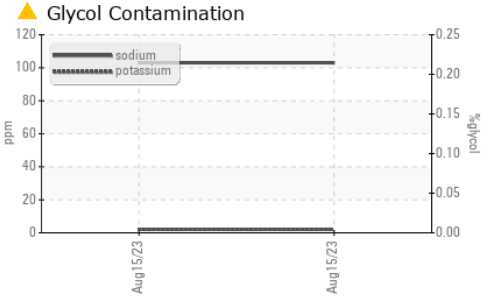
method	limit/base	current	history1	history2
Soot % *ASTM D7844		<b>0.1</b>	---	---
Nitration Abs/cm *ASTM D7624	>20	<b>5.7</b>	---	---
Sulfation Abs/.1mm *ASTM D7415	>30	<b>15.2</b>	---	---

## FLUID DEGRADATION

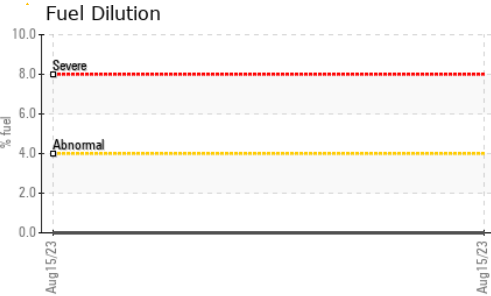
method	limit/base	current	history1	history2
Oxidation Abs/.1mm *ASTM D7414	>25	<b>9.5</b>	---	---
Base Number (BN) mg KOH/g ASTM D2896	9.8	<b>6.4</b>	---	---



# OIL ANALYSIS REPORT

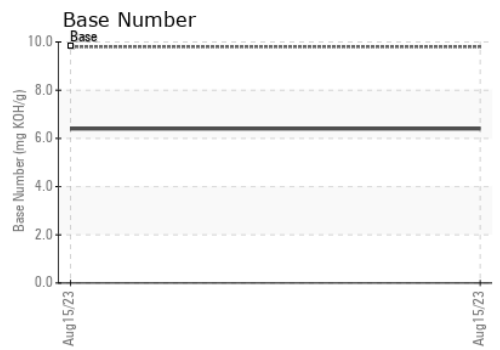
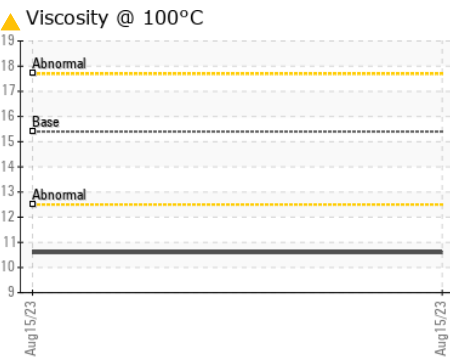
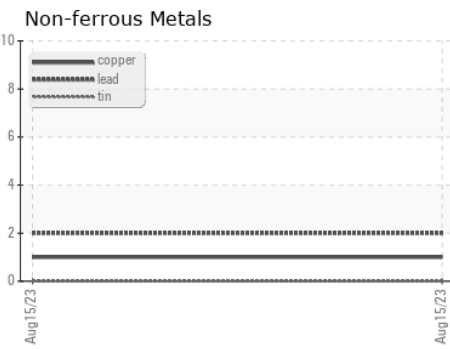
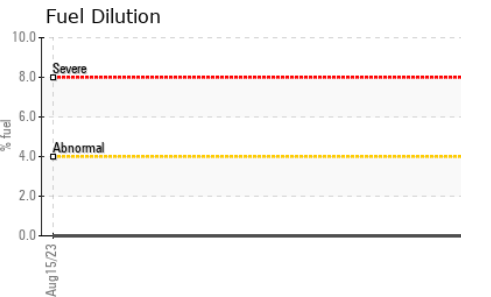
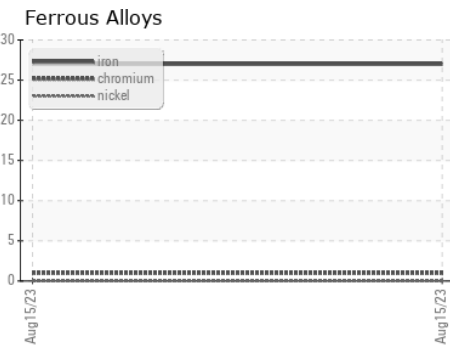
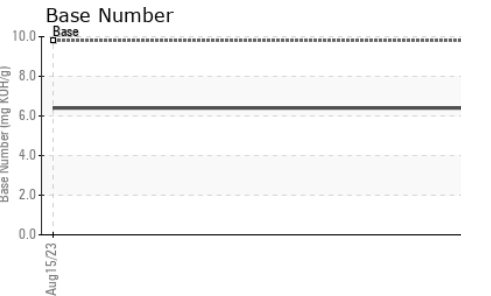


VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	---
Yellow Metal	scalar	*Visual	NONE	NONE	---
Precipitate	scalar	*Visual	NONE	NONE	---
Silt	scalar	*Visual	NONE	NONE	---
Debris	scalar	*Visual	NONE	NONE	---
Sand/Dirt	scalar	*Visual	NONE	NONE	---
Appearance	scalar	*Visual	NORML	NORML	---
Odor	scalar	*Visual	NORML	NORML	---
Emulsified Water	scalar	*Visual	>0.1	NEG	---
Free Water	scalar	*Visual		NEG	---



FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 100°C	cSt	ASTM D445	15.4	▲ 10.6	---

### GRAPHS



**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : GFL0085625      **Received** : 21 Aug 2023  
**Lab Number** : 05930236      **Diagnosed** : 23 Aug 2023  
**Unique Number** : 10615507      **Diagnostician** : Jonathan Hester  
**Test Package** : FLEET ( Additional Tests: FuelDilution, PercentFuel )

**GFL Environmental - 411 - Kingsford HC**  
 1001 E Blvd  
 Kingsford, MI  
 US 49802  
 Contact: Service Manager

To discuss this sample report, contact Customer Service at 1-800-237-1369.  
 \* - Denotes test methods that are outside of the ISO 17025 scope of accreditation.  
 Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)

T:  
F: