



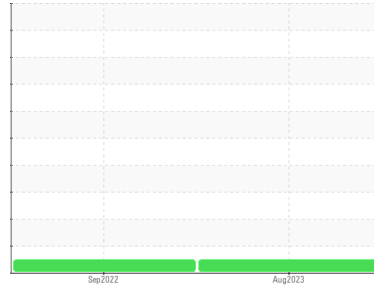
# OIL ANALYSIS REPORT

Sample Rating Trend

**NORMAL**



Machine Id  
**OR872**  
 Component  
**Diesel Engine**  
 Fluid  
**PETRO CANADA DURON SHP 15W40 (--- GAL)**



## DIAGNOSIS

### Recommendation

Confirm the source of the lubricant being utilized for top-up/fill. Resample at the next service interval to monitor.

### Wear

All component wear rates are normal.

### Contamination

There is no indication of any contamination in the oil.

### Fluid Condition

Additive levels indicate the addition of a different brand, or type of oil. The condition of the oil is acceptable for the time in service.

## SAMPLE INFORMATION

	method	limit/base	current	history1	history2
Sample Number	Client Info		<b>GFL0077025</b>	GFL0054678	---
Sample Date	Client Info		<b>10 Aug 2023</b>	02 Sep 2022	---
Machine Age	hrs	Client Info	<b>20882</b>	19622	---
Oil Age	hrs	Client Info	<b>795</b>	1500	---
Oil Changed	Client Info		<b>Changed</b>	Changed	---
Sample Status			<b>NORMAL</b>	NORMAL	---

## CONTAMINATION

	method	limit/base	current	history1	history2
Fuel	WC Method	>5	<b>&lt;1.0</b>	0.4	---

## WEAR METALS

	method	limit/base	current	history1	history2	
Iron	ppm	ASTM D5185(m)	>100	<b>8</b>	13	---
Chromium	ppm	ASTM D5185(m)	>20	<b>&lt;1</b>	<1	---
Nickel	ppm	ASTM D5185(m)	>2	<b>0</b>	0	---
Titanium	ppm	ASTM D5185(m)	>2	<b>0</b>	<1	---
Silver	ppm	ASTM D5185(m)	>2	<b>0</b>	0	---
Aluminum	ppm	ASTM D5185(m)	>25	<b>1</b>	1	---
Lead	ppm	ASTM D5185(m)	>40	<b>0</b>	<1	---
Copper	ppm	ASTM D5185(m)	>330	<b>1</b>	<1	---
Tin	ppm	ASTM D5185(m)	>15	<b>0</b>	<1	---
Antimony	ppm	ASTM D5185(m)		<b>&lt;1</b>	0	---
Vanadium	ppm	ASTM D5185(m)		<b>0</b>	0	---
Beryllium	ppm	ASTM D5185(m)		<b>0</b>	0	---
Cadmium	ppm	ASTM D5185(m)		<b>0</b>	0	---

## ADDITIVES

	method	limit/base	current	history1	history2	
Boron	ppm	ASTM D5185(m)	0	<b>93</b>	4	---
Barium	ppm	ASTM D5185(m)	0	<b>0</b>	0	---
Molybdenum	ppm	ASTM D5185(m)	60	<b>13</b>	59	---
Manganese	ppm	ASTM D5185(m)	0	<b>0</b>	<1	---
Magnesium	ppm	ASTM D5185(m)	1010	<b>205</b>	977	---
Calcium	ppm	ASTM D5185(m)	1070	<b>2056</b>	1092	---
Phosphorus	ppm	ASTM D5185(m)	1150	<b>1059</b>	1079	---
Zinc	ppm	ASTM D5185(m)	1270	<b>1179</b>	1197	---
Sulfur	ppm	ASTM D5185(m)	2060	<b>2990</b>	2617	---
Lithium	ppm	ASTM D5185(m)		<b>&lt;1</b>	<1	---

## CONTAMINANTS

	method	limit/base	current	history1	history2	
Silicon	ppm	ASTM D5185(m)	>25	<b>3</b>	2	---
Sodium	ppm	ASTM D5185(m)		<b>2</b>	2	---
Potassium	ppm	ASTM D5185(m)	>20	<b>6</b>	<1	---
Glycol	%	ASTM D7922*		<b>0.0</b>	NEG	---

## INFRA-RED

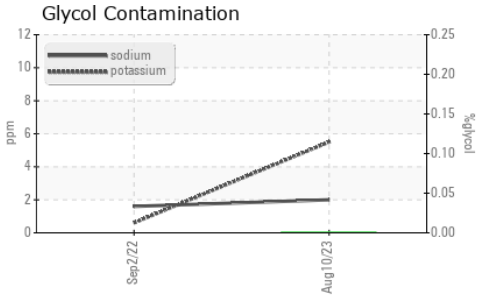
	method	limit/base	current	history1	history2	
Soot %	%	ASTM D7844*	>3	<b>0.2</b>	0.3	---
Nitration	Abs/cm	ASTM D7624*	>20	<b>6.0</b>	6.3	---
Sulfation	Abs/.1mm	ASTM D7415*	>30	<b>19.4</b>	20.4	---

## FLUID DEGRADATION

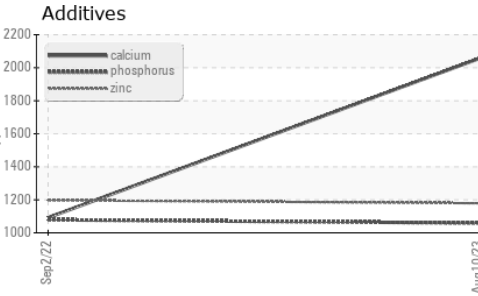
	method	limit/base	current	history1	history2	
Oxidation	Abs/.1mm	ASTM D7414*	>25	<b>13.2</b>	14.3	---



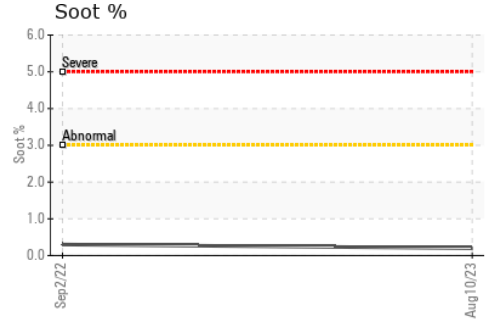
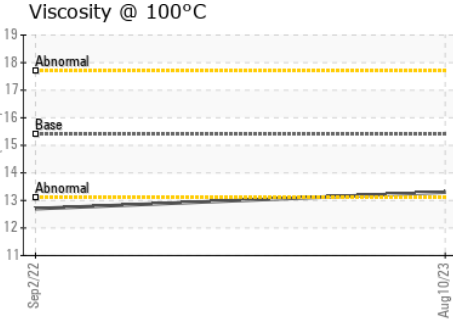
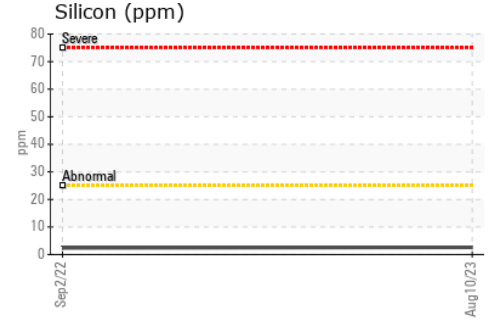
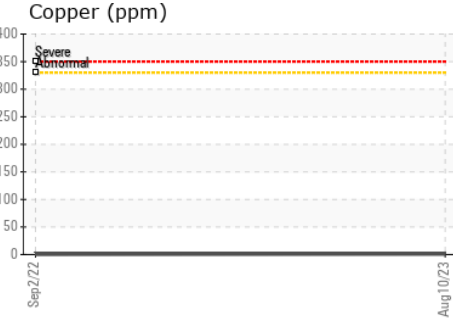
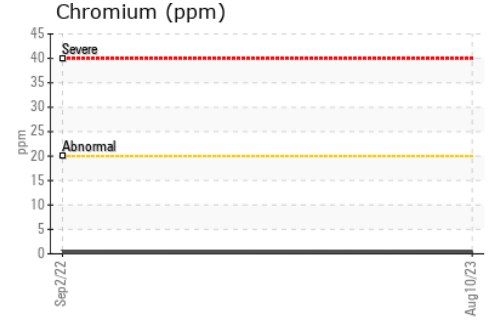
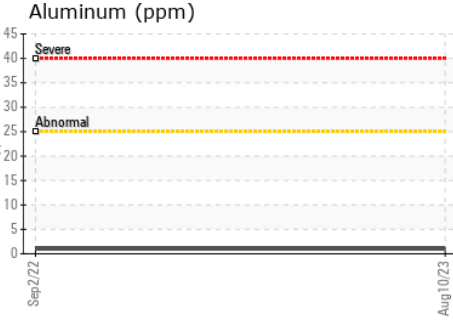
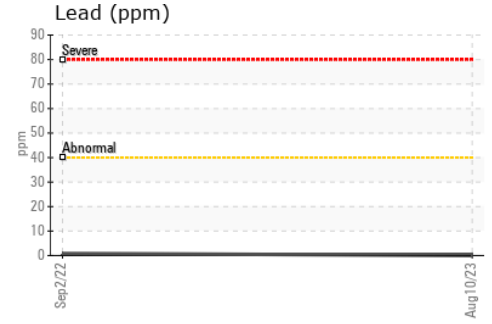
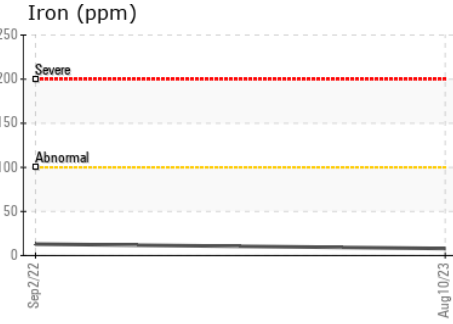
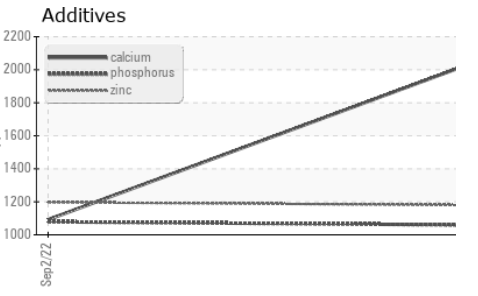
# OIL ANALYSIS REPORT



VISUAL	method	limit/base	current	history1	history2
Emulsified Water	scalar	Visual*	>0.2	NEG	NEG
Free Water	scalar	Visual*		NEG	NEG



FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 100°C	cSt	ASTM D7279(m)	15.4	13.3	12.7



**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 GFL Environmental - 575 - Squamish Hauling  
**Sample No.** : GFL0077025 **Received** : 15 Aug 2023 38950 Queens Way,  
**Lab Number** : 02575888 **Diagnosed** : 15 Aug 2023 Squamish, BC  
**Unique Number** : 5628948 **Diagnostician** : Wes Davis CA V8B 0K8  
**Test Package** : MOB 1 ( Additional Tests: Glycol )

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.

Contact: Dean Imbeau  
 dimbeau@gflenv.com  
 T: (604)892-5604  
 F: (604)892-5238