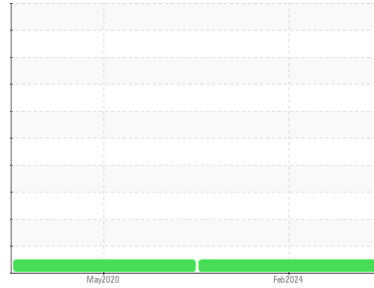




# OIL ANALYSIS REPORT

Sample Rating Trend

**NORMAL**



Area  
**[1225533]**  
 Machine Id  
**101012**

Component  
**Diesel Engine**  
 Fluid

**PETRO CANADA DURON SHP 10W30 (--- GAL)**

## DIAGNOSIS

### Recommendation

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

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>GFL0107921</b>	GFL0006021	---
Sample Date	Client Info			<b>13 Feb 2024</b>	07 May 2020	---
Machine Age	hrs	Client Info		<b>14674</b>	9800	---
Oil Age	hrs	Client Info		<b>0</b>	9800	---
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>	<1.0	---
Water	WC Method	>0.2		<b>NEG</b>	NEG	---

WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185(m)	>100	<b>18</b>	13	---
Chromium	ppm	ASTM D5185(m)	>20	<b>&lt;1</b>	2	---
Nickel	ppm	ASTM D5185(m)	>4	<b>&lt;1</b>	<1	---
Titanium	ppm	ASTM D5185(m)		<b>0</b>	<1	---
Silver	ppm	ASTM D5185(m)	>3	<b>0</b>	0	---
Aluminum	ppm	ASTM D5185(m)	>20	<b>15</b>	5	---
Lead	ppm	ASTM D5185(m)	>40	<b>0</b>	<1	---
Copper	ppm	ASTM D5185(m)	>330	<b>2</b>	2	---
Tin	ppm	ASTM D5185(m)	>15	<b>&lt;1</b>	<1	---
Antimony	ppm	ASTM D5185(m)		<b>0</b>	<1	---
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	---

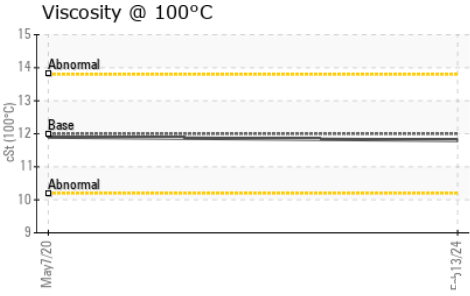
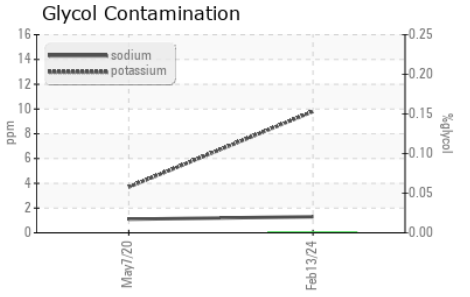
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185(m)	2	<b>&lt;1</b>	2	---
Barium	ppm	ASTM D5185(m)	0	<b>0</b>	0	---
Molybdenum	ppm	ASTM D5185(m)	50	<b>58</b>	59	---
Manganese	ppm	ASTM D5185(m)	0	<b>0</b>	<1	---
Magnesium	ppm	ASTM D5185(m)	950	<b>956</b>	982	---
Calcium	ppm	ASTM D5185(m)	1050	<b>1054</b>	1050	---
Phosphorus	ppm	ASTM D5185(m)	995	<b>1015</b>	1016	---
Zinc	ppm	ASTM D5185(m)	1180	<b>1180</b>	1233	---
Sulfur	ppm	ASTM D5185(m)	2600	<b>2651</b>	2521	---
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>1</b>	1	---
Potassium	ppm	ASTM D5185(m)	>20	<b>10</b>	4	---
Glycol	%	ASTM D7922*		<b>0.0</b>	NEG	---

INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	ASTM D7844*	>3	<b>0.5</b>	0.5	---
Nitration	Abs/cm	ASTM D7624*	>20	<b>8.7</b>	9.4	---
Sulfation	Abs/.1mm	ASTM D7415*	>30	<b>19.4</b>	24.2	---



# OIL ANALYSIS REPORT

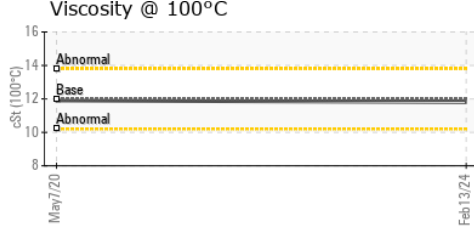
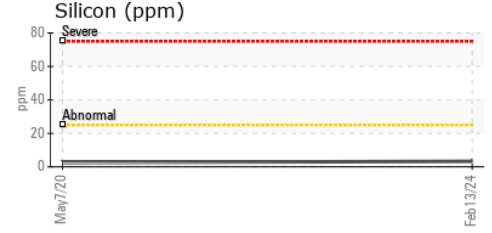
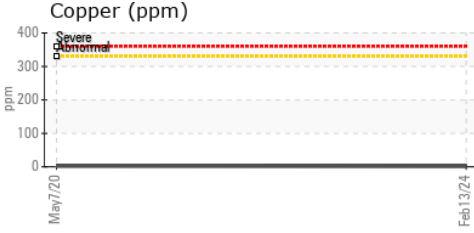
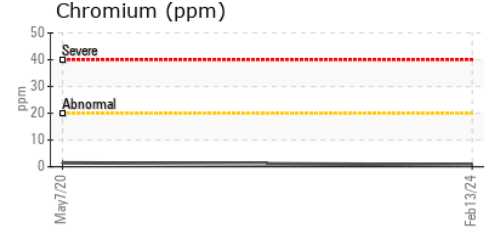
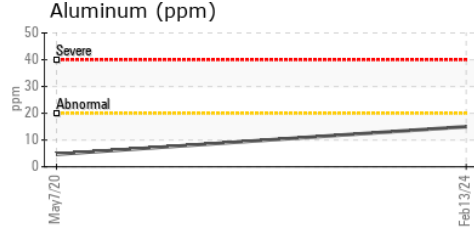
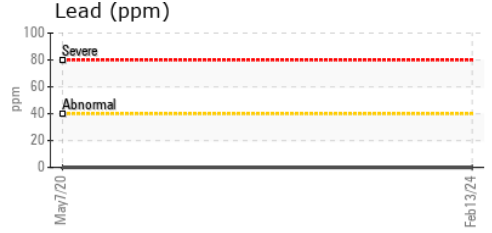
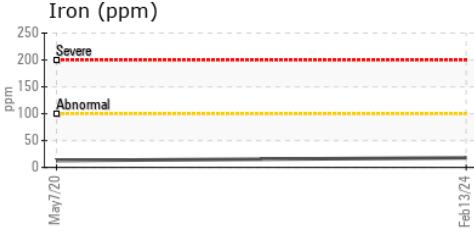


FLUID DEGRADATION		method	limit/base	current	history1	history2
Oxidation	Abs./1mm	ASTM D7414*	>25	<b>15.8</b>	16.5	---

VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	Visual*	NONE	<b>VLITE</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>	---	---
Emulsified Water	scalar	Visual*	>0.2	<b>NEG</b>	NEG	---
Free Water	scalar	Visual*		<b>NEG</b>	NEG	---

FLUID PROPERTIES		method	limit/base	current	history1	history2
Visc @ 100°C	cSt	ASTM D7279(m)	12.00	<b>11.8</b>	11.9	---

## GRAPHS



**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9  
**Sample No.** : GFL0107921      **Received** : 21 Feb 2024  
**Lab Number** : **02616923**      **Tested** : 22 Feb 2024  
**Unique Number** : 5734033      **Diagnosed** : 22 Feb 2024 - Kevin Marson  
**Test Package** : MOB 1 ( Additional Tests: Glycol, Visual )

**GFL Environmental - 350 - Emerald Park Regina**  
 2B Industrial Drive., Great Plains Industrial Park,  
 Emerald Park, SK  
 CA S4L 1B6  
 Contact: Vaughn Hortness  
 vhortness@gflenv.com  
 T: (877)244-9500  
 F: (306)244-9501

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.