



Machine Id  
**5399**  
Component  
**Diesel Engine**  
Fluid  
**PETRO CANADA DURON SAE 15W40 (--- GAL)**

### RECOMMENDATION

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

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>GFL0112564</b>	---	---
Sample Date		Client Info		<b>01 May 2024</b>	---	---
Machine Age	hrs	Client Info		<b>4175</b>	---	---
Oil Age	hrs	Client Info		<b>0</b>	---	---
Filter Age	hrs	Client Info		<b>0</b>	---	---
Oil Changed		Client Info		<b>Changed</b>	---	---
Filter Changed		Client Info		<b>Changed</b>	---	---
Sample Status				<b>NORMAL</b>	---	---

### WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185(m)	>120	<b>10</b>	---	---
Chromium	ppm	ASTM D5185(m)	>20	<b>&lt;1</b>	---	---
Nickel	ppm	ASTM D5185(m)	>5	<b>&lt;1</b>	---	---
Titanium	ppm	ASTM D5185(m)	>2	<b>0</b>	---	---
Silver	ppm	ASTM D5185(m)	>2	<b>0</b>	---	---
Aluminum	ppm	ASTM D5185(m)	>20	<b>1</b>	---	---
Lead	ppm	ASTM D5185(m)	>40	<b>&lt;1</b>	---	---
Copper	ppm	ASTM D5185(m)	>330	<b>1</b>	---	---
Tin	ppm	ASTM D5185(m)	>15	<b>0</b>	---	---
Vanadium	ppm	ASTM D5185(m)		<b>0</b>	---	---

### CONTAMINATION

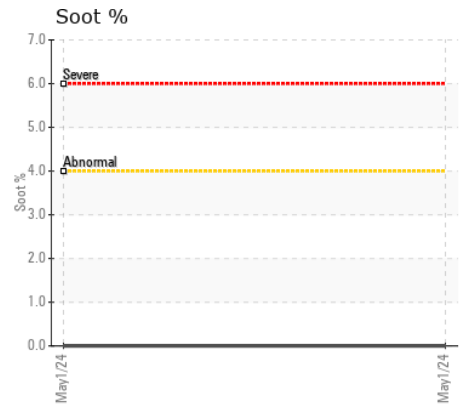
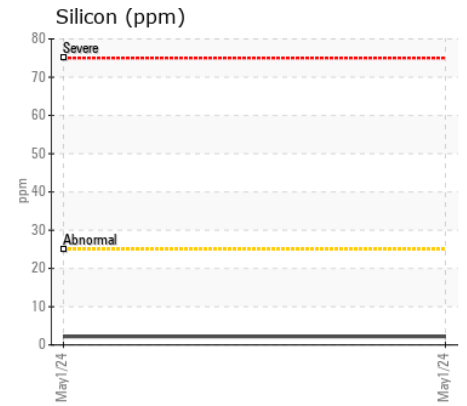
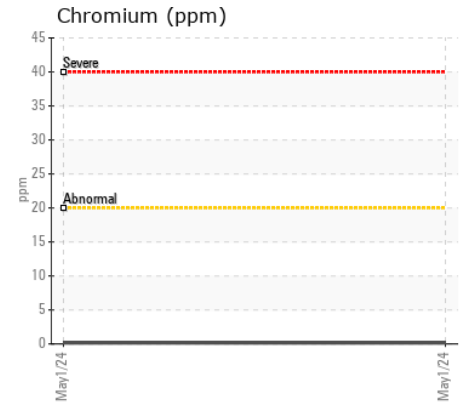
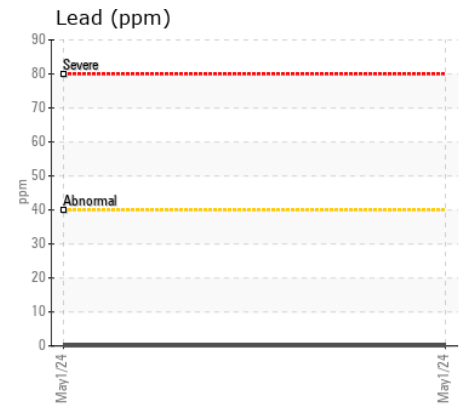
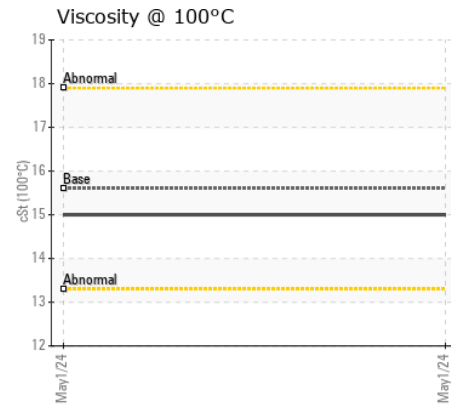
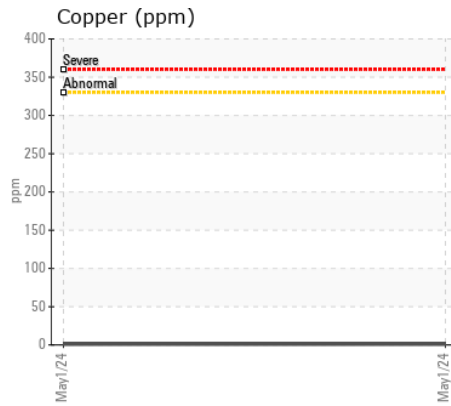
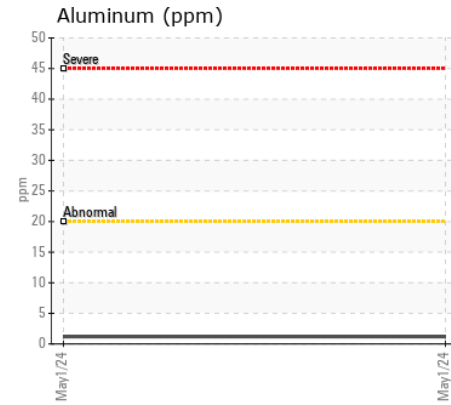
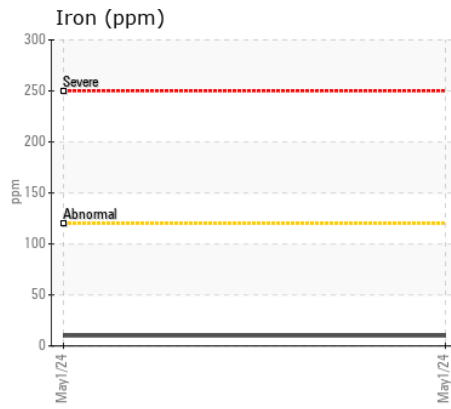
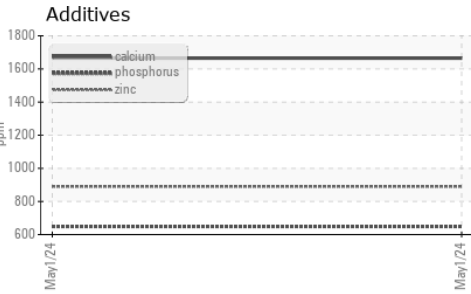
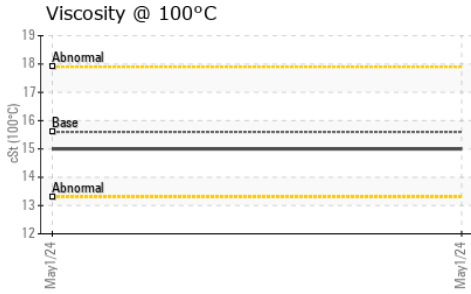
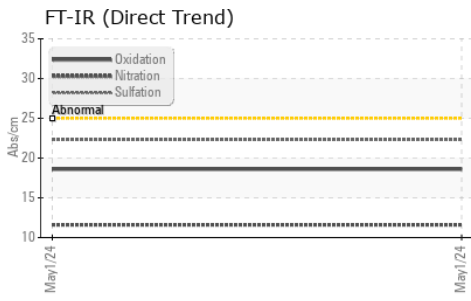
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185(m)	>25	<b>2</b>	---	---
Potassium	ppm	ASTM D5185(m)	>20	<b>&lt;1</b>	---	---
Fuel		WC Method	>3.0	<b>&lt;1.0</b>	---	---
Water		WC Method	>0.2	<b>NEG</b>	---	---
Glycol		WC Method		<b>NEG</b>	---	---
Soot %	%	ASTM D7844*	>4	<b>0</b>	---	---
Nitration	Abs/cm	ASTM D7624*	>20	<b>11.6</b>	---	---
Sulfation	Abs/.1mm	ASTM D7415*	>30	<b>22.3</b>	---	---
Emulsified Water	scalar	Visual*	>0.2	<b>NEG</b>	---	---

### 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.

Sodium	ppm	ASTM D5185(m)		<b>8</b>	---	---
Boron	ppm	ASTM D5185(m)	1	<b>11</b>	---	---
Barium	ppm	ASTM D5185(m)	1	<b>0</b>	---	---
Molybdenum	ppm	ASTM D5185(m)	60	<b>53</b>	---	---
Manganese	ppm	ASTM D5185(m)	1	<b>&lt;1</b>	---	---
Magnesium	ppm	ASTM D5185(m)	1010	<b>550</b>	---	---
Calcium	ppm	ASTM D5185(m)	1070	<b>1665</b>	---	---
Phosphorus	ppm	ASTM D5185(m)	1150	<b>649</b>	---	---
Zinc	ppm	ASTM D5185(m)	1270	<b>890</b>	---	---
Sulfur	ppm	ASTM D5185(m)	2060	<b>1952</b>	---	---
Oxidation	Abs/.1mm	ASTM D7414*	>25	<b>18.6</b>	---	---
Visc @ 100°C	cSt	ASTM D7279(m)	15.6	<b>15.0</b>	---	---



**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9  
**Sample No.** : GFL0112564  
**Lab Number** : **02634074**  
**Unique Number** : 5775227  
**Test Package** : MOB 1  
**Received** : 08 May 2024  
**Tested** : 08 May 2024  
**Diagnosed** : 08 May 2024 - Kevin Marson

**GFL Environmental - 554 - Edmonton SW**  
 8409 -15th Street NW  
 Edmonton, AB  
 CA T6P 0B8  
 Contact: Tim Greig  
 tgreig@gflenv.com  
 T: (780)231-0521  
 F:

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.