



WEAR	<b>NORMAL</b>
CONTAMINATION	<b>NORMAL</b>
FLUID CONDITION	<b>NORMAL</b>



Machine Id  
**OR859**  
Component  
**Diesel Engine**  
Fluid  
**PETRO CANADA DURON SHP 15W40 (--- GAL)**

**RECOMMENDATION**

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>GFL0100570</b>	GFL0054639	---
Sample Date		Client Info		<b>23 May 2024</b>	25 Aug 2022	---
Machine Age	hrs	Client Info		<b>11720</b>	10896	---
Oil Age	hrs	Client Info		<b>677</b>	826	---
Filter Age	hrs	Client Info		<b>677</b>	826	---
Oil Changed		Client Info		<b>Changed</b>	Changed	---
Filter Changed		Client Info		<b>Changed</b>	Changed	---
Sample Status				<b>NORMAL</b>	NORMAL	---

**WEAR**

All component wear rates are normal.

Iron	ppm	ASTM D5185(m)	>100	<b>7</b>	14	---
Chromium	ppm	ASTM D5185(m)	>20	<b>0</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>&lt;1</b>	1	---
Lead	ppm	ASTM D5185(m)	>40	<b>&lt;1</b>	6	---
Copper	ppm	ASTM D5185(m)	>330	<b>4</b>	5	---
Tin	ppm	ASTM D5185(m)	>15	<b>0</b>	<1	---
Vanadium	ppm	ASTM D5185(m)		<b>0</b>	0	---

**CONTAMINATION**

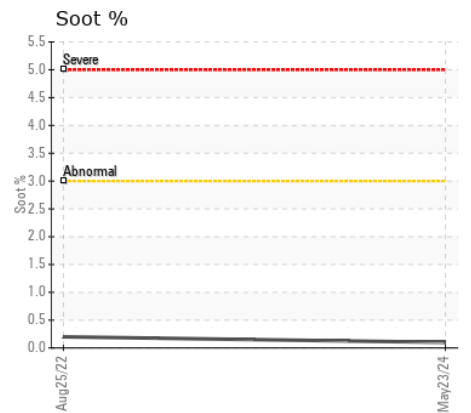
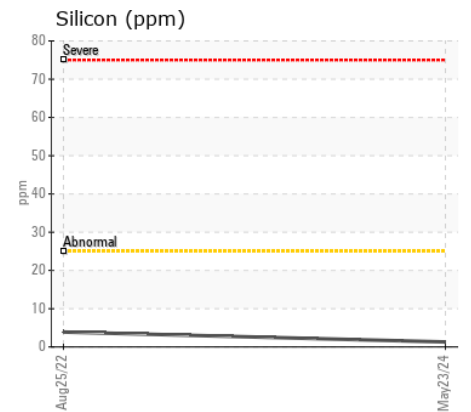
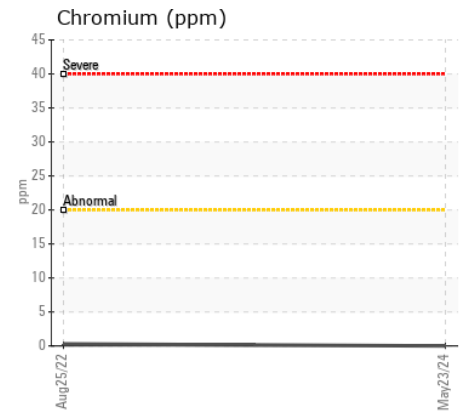
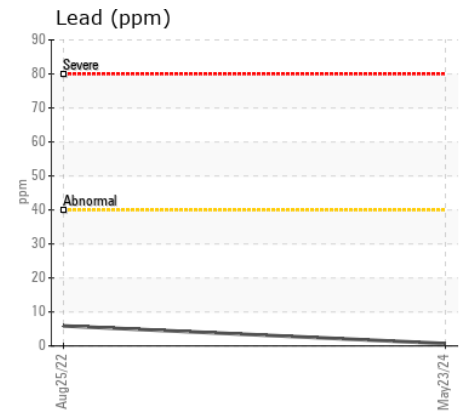
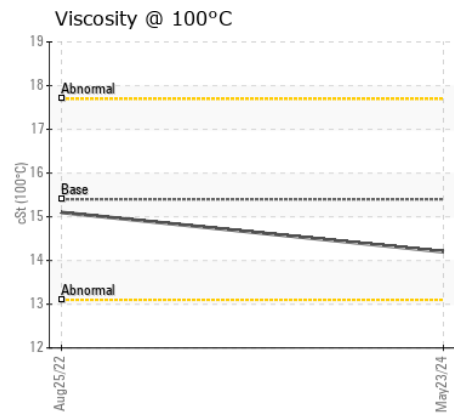
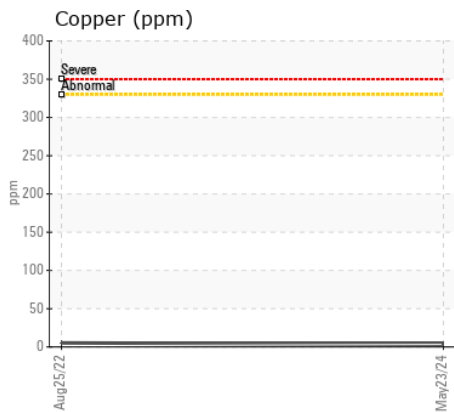
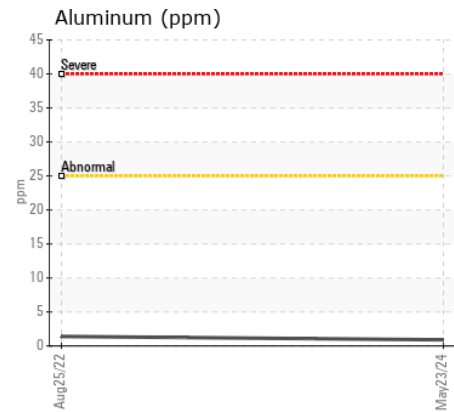
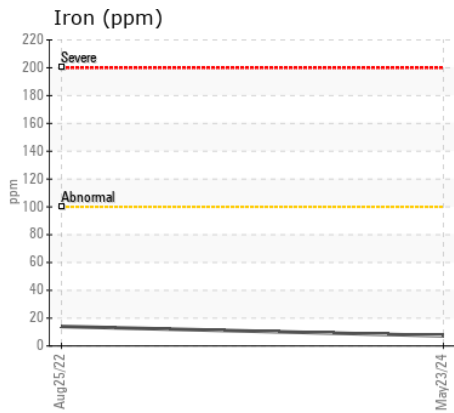
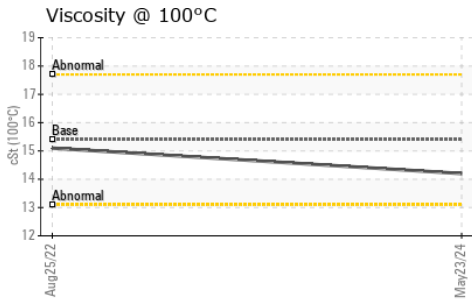
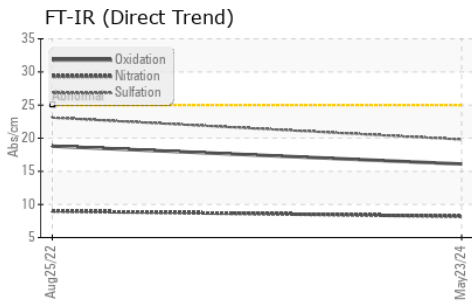
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185(m)	>25	<b>1</b>	4	---
Potassium	ppm	ASTM D5185(m)	>20	<b>2</b>	3	---
Fuel		WC Method	>5	<b>&lt;1.0</b>	<1.0	---
Water		WC Method	>0.2	<b>NEG</b>	NEG	---
Glycol		WC Method		<b>NEG</b>	NEG	---
Soot %	%	ASTM D7844*	>3	<b>0.1</b>	0.2	---
Nitration	Abs/cm	ASTM D7624*	>20	<b>8.2</b>	9.0	---
Sulfation	Abs/.1mm	ASTM D7415*	>30	<b>19.8</b>	23.1	---
Emulsified Water	scalar	Visual*	>0.2	<b>NEG</b>	NEG	---

**FLUID CONDITION**

The condition of the oil is acceptable for the time in service.

Sodium	ppm	ASTM D5185(m)		<b>4</b>	9	---
Boron	ppm	ASTM D5185(m)	0	<b>12</b>	27	---
Barium	ppm	ASTM D5185(m)	0	<b>0</b>	0	---
Molybdenum	ppm	ASTM D5185(m)	60	<b>44</b>	40	---
Manganese	ppm	ASTM D5185(m)	0	<b>0</b>	<1	---
Magnesium	ppm	ASTM D5185(m)	1010	<b>733</b>	644	---
Calcium	ppm	ASTM D5185(m)	1070	<b>1348</b>	1531	---
Phosphorus	ppm	ASTM D5185(m)	1150	<b>948</b>	956	---
Zinc	ppm	ASTM D5185(m)	1270	<b>1144</b>	1198	---
Sulfur	ppm	ASTM D5185(m)	2060	<b>2485</b>	2661	---
Oxidation	Abs/.1mm	ASTM D7414*	>25	<b>16.1</b>	18.8	---
Visc @ 100°C	cSt	ASTM D7279(m)	15.4	<b>14.2</b>	15.1	---



**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9  
**Sample No.** : GFL0100570  
**Lab Number** : 02637896  
**Unique Number** : 5787058  
**Test Package** : MOB 1  
**Received** : 28 May 2024  
**Tested** : 28 May 2024  
**Diagnosed** : 28 May 2024 - Wes Davis

**GFL Environmental - 575 - Squamish Hauling**  
 38950 Queens Way,  
 Squamish, BC  
 CA V8B 0K8  
 Contact: Dean Imbeau  
 dimbeau@gflenv.com  
 T: (604)892-5604  
 F: (604)892-5238

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.