



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



Machine Id  
**810001**  
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>GFL0107334</b>	GFL0107279	GFL0079213
Sample Date		Client Info		<b>01 Apr 2024</b>	22 Jan 2024	16 Oct 2023
Machine Age	hrs	Client Info		<b>9833</b>	9469	8876
Oil Age	hrs	Client Info		<b>600</b>	600	600
Filter Age	hrs	Client Info		<b>600</b>	600	600
Oil Changed		Client Info		<b>Changed</b>	Changed	Changed
Filter Changed		Client Info		<b>Changed</b>	Changed	Changed
Sample Status				<b>NORMAL</b>	NORMAL	NORMAL

**WEAR**

All component wear rates are normal.

Iron	ppm	ASTM D5185(m)	>90	<b>22</b>	26	12
Chromium	ppm	ASTM D5185(m)	>20	<b>1</b>	1	<1
Nickel	ppm	ASTM D5185(m)	>2	<b>&lt;1</b>	<1	<1
Titanium	ppm	ASTM D5185(m)	>2	<b>0</b>	0	0
Silver	ppm	ASTM D5185(m)	>2	<b>0</b>	0	<1
Aluminum	ppm	ASTM D5185(m)	>20	<b>3</b>	5	3
Lead	ppm	ASTM D5185(m)	>40	<b>0</b>	0	<1
Copper	ppm	ASTM D5185(m)	>330	<b>2</b>	4	9
Tin	ppm	ASTM D5185(m)	>15	<b>0</b>	0	0
Vanadium	ppm	ASTM D5185(m)		<b>0</b>	0	0

**CONTAMINATION**

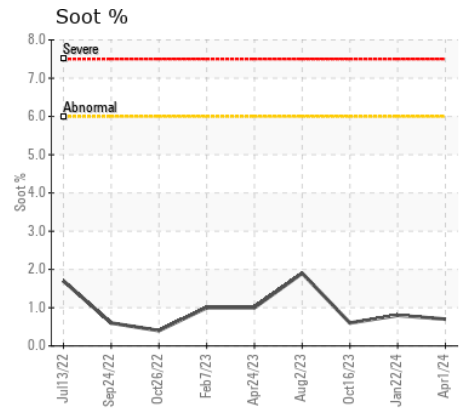
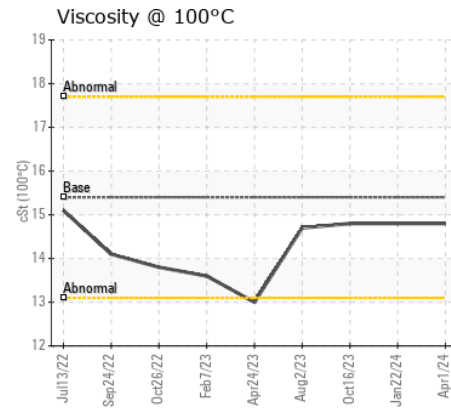
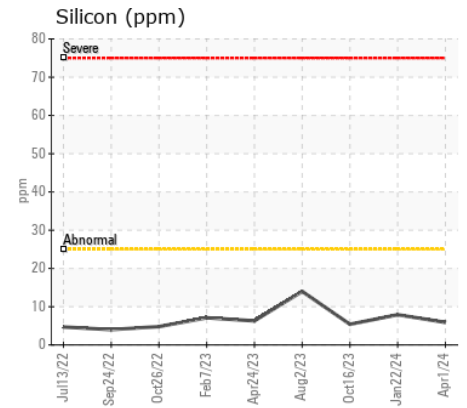
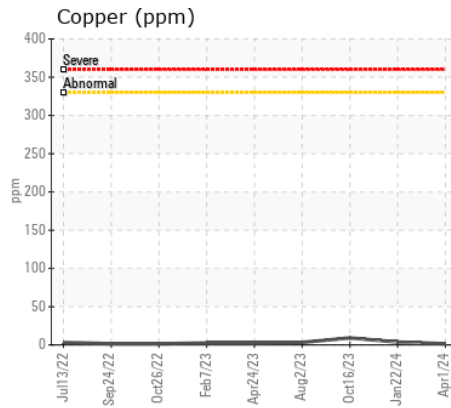
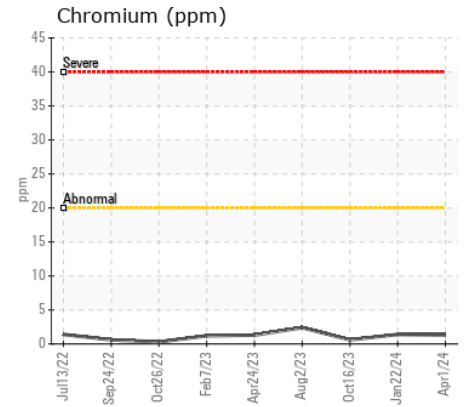
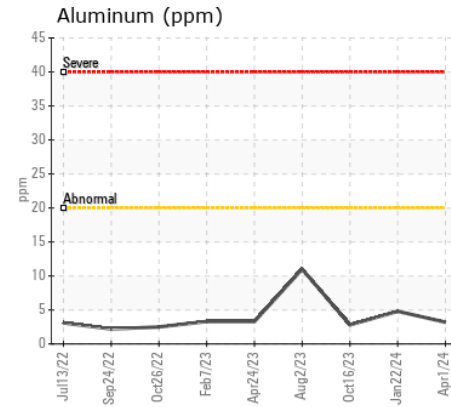
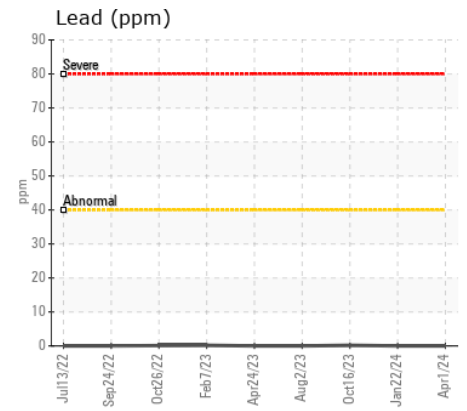
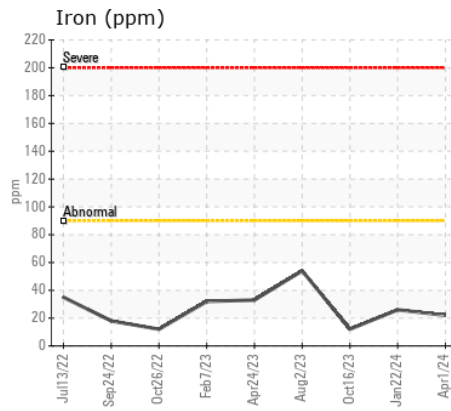
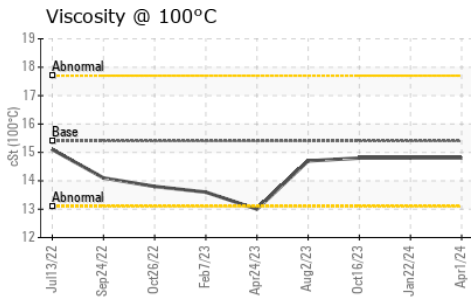
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185(m)	>25	<b>6</b>	8	5
Potassium	ppm	ASTM D5185(m)	>20	<b>2</b>	4	8
Fuel		WC Method	>3.0	<b>&lt;1.0</b>	<1.0	<1.0
Water		WC Method	>0.2	<b>NEG</b>	NEG	NEG
Glycol		WC Method		<b>NEG</b>	NEG	NEG
Soot %	%	ASTM D7844*	>6	<b>0.7</b>	0.8	0.6
Nitration	Abs/cm	ASTM D7624*	>20	<b>9.2</b>	10.2	8.9
Sulfation	Abs/.1mm	ASTM D7415*	>30	<b>21.1</b>	23.5	22.3
Emulsified Water	scalar	Visual*	>0.2	<b>NEG</b>	NEG	NEG

**FLUID CONDITION**

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

Sodium	ppm	ASTM D5185(m)		<b>6</b>	7	8
Boron	ppm	ASTM D5185(m)	0	<b>5</b>	8	80
Barium	ppm	ASTM D5185(m)	0	<b>0</b>	0	<1
Molybdenum	ppm	ASTM D5185(m)	60	<b>60</b>	55	15
Manganese	ppm	ASTM D5185(m)	0	<b>0</b>	0	0
Magnesium	ppm	ASTM D5185(m)	1010	<b>993</b>	879	231
Calcium	ppm	ASTM D5185(m)	1070	<b>1095</b>	1247	2003
Phosphorus	ppm	ASTM D5185(m)	1150	<b>996</b>	1006	978
Zinc	ppm	ASTM D5185(m)	1270	<b>1232</b>	1210	1193
Sulfur	ppm	ASTM D5185(m)	2060	<b>2378</b>	2496	2771
Oxidation	Abs/.1mm	ASTM D7414*	>25	<b>17.4</b>	20.0	17.8
Visc @ 100°C	cSt	ASTM D7279(m)	15.4	<b>14.8</b>	14.8	14.8



**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9  
**Sample No.** : GFL0107334  
**Lab Number** : 02626307  
**Unique Number** : 5759439  
**Test Package** : MOB 1  
**Received** : 03 Apr 2024  
**Tested** : 03 Apr 2024  
**Diagnosed** : 03 Apr 2024 - Wes Davis

**GFL Environmental - 250 - Sault Ste Marie Hauling + MRF**  
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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.