



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

Machine Id  
**501131**  
 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>GFL0107324</b>	GFL0079254	GFL0079191
Sample Date		Client Info		<b>30 Apr 2024</b>	08 Nov 2023	10 May 2023
Machine Age	hrs	Client Info		<b>600</b>	6613	600
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>N/A</b>	Changed	Changed
Sample Status				<b>NORMAL</b>	NORMAL	NORMAL

**WEAR**

Metal levels are typical for a new component breaking in.

Iron	ppm	ASTM D5185(m)	>110	<b>20</b>	22	17
Chromium	ppm	ASTM D5185(m)	>4	<b>&lt;1</b>	<1	<1
Nickel	ppm	ASTM D5185(m)	>2	<b>0</b>	0	0
Titanium	ppm	ASTM D5185(m)		<b>0</b>	0	0
Silver	ppm	ASTM D5185(m)	>2	<b>0</b>	<1	<1
Aluminum	ppm	ASTM D5185(m)	>25	<b>3</b>	4	3
Lead	ppm	ASTM D5185(m)	>45	<b>&lt;1</b>	2	1
Copper	ppm	ASTM D5185(m)	>85	<b>&lt;1</b>	<1	<1
Tin	ppm	ASTM D5185(m)	>4	<b>0</b>	<1	<1
Vanadium	ppm	ASTM D5185(m)		<b>0</b>	0	0

**CONTAMINATION**

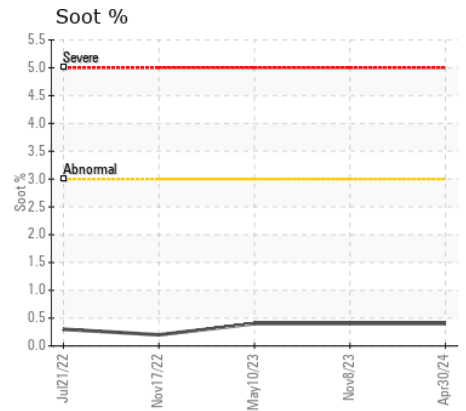
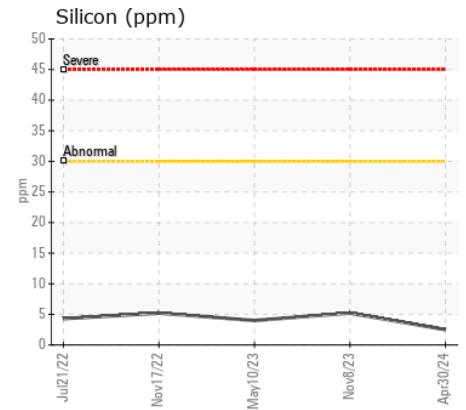
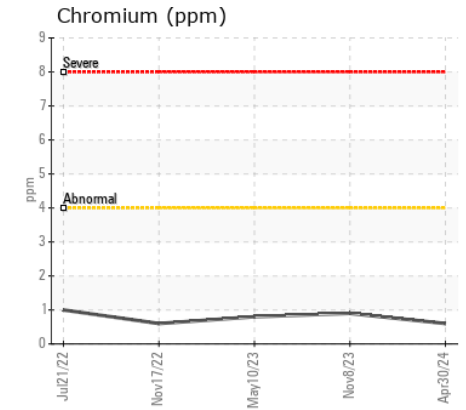
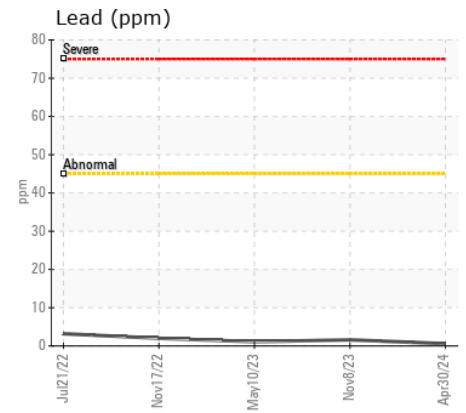
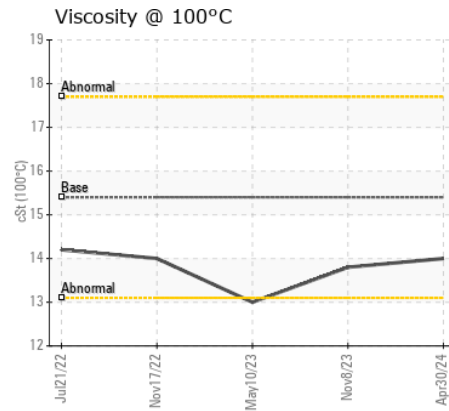
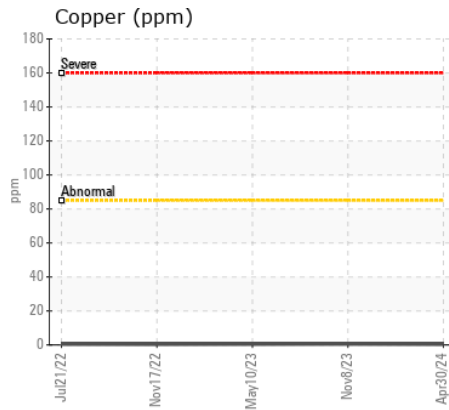
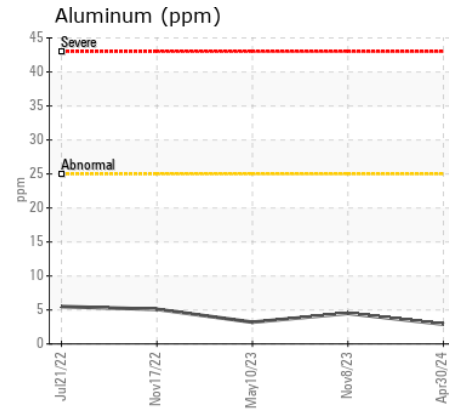
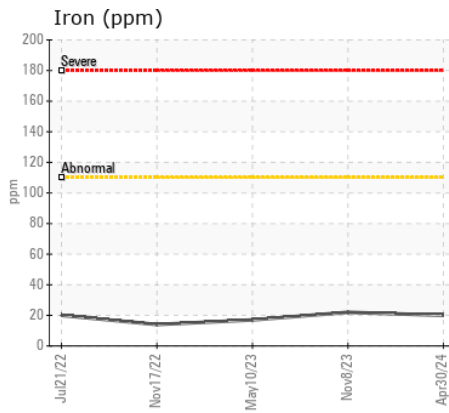
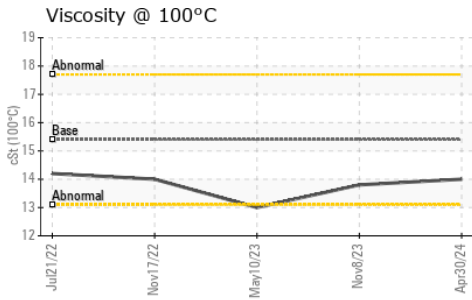
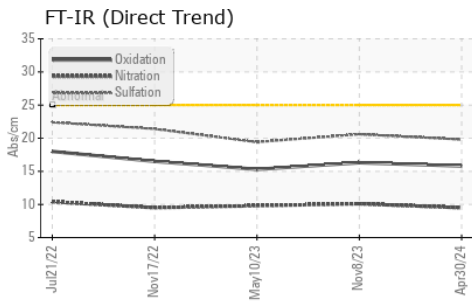
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185(m)	>30	<b>2</b>	5	4
Potassium	ppm	ASTM D5185(m)	>20	<b>5</b>	6	4
Fuel		WC Method	>5	<b>&lt;1.0</b>	<1.0	0.7
Water		WC Method	>0.2	<b>NEG</b>	NEG	NEG
Glycol		WC Method		<b>NEG</b>	NEG	NEG
Soot %	%	ASTM D7844*	>3	<b>0.4</b>	0.4	0.4
Nitration	Abs/cm	ASTM D7624*	>20	<b>9.5</b>	10.1	9.8
Sulfation	Abs/.1mm	ASTM D7415*	>30	<b>19.8</b>	20.6	19.4
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>4</b>	4	3
Boron	ppm	ASTM D5185(m)	0	<b>2</b>	8	14
Barium	ppm	ASTM D5185(m)	0	<b>0</b>	<1	0
Molybdenum	ppm	ASTM D5185(m)	60	<b>64</b>	64	63
Manganese	ppm	ASTM D5185(m)	0	<b>&lt;1</b>	0	<1
Magnesium	ppm	ASTM D5185(m)	1010	<b>1014</b>	992	949
Calcium	ppm	ASTM D5185(m)	1070	<b>1098</b>	1071	1070
Phosphorus	ppm	ASTM D5185(m)	1150	<b>1040</b>	1040	1045
Zinc	ppm	ASTM D5185(m)	1270	<b>1222</b>	1219	1162
Sulfur	ppm	ASTM D5185(m)	2060	<b>2535</b>	2566	2537
Oxidation	Abs/.1mm	ASTM D7414*	>25	<b>15.8</b>	16.3	15.3
Visc @ 100°C	cSt	ASTM D7279(m)	15.4	<b>14.0</b>	13.8	13.0



**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9  
**Sample No.** : GFL0107324  
**Lab Number** : 02632730  
**Unique Number** : 5773883  
**Test Package** : MOB 1  
**Received** : 02 May 2024  
**Tested** : 02 May 2024  
**Diagnosed** : 02 May 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.