



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



Machine Id  
**928008**  
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>GFL0080094</b>	GFL0044752	GFL0044668
Sample Date		Client Info		<b>02 Apr 2024</b>	28 Mar 2023	10 Nov 2022
Machine Age	hrs	Client Info		<b>16606</b>	14614	0
Oil Age	hrs	Client Info		<b>600</b>	600	0
Filter Age	hrs	Client Info		<b>600</b>	600	0
Oil Changed		Client Info		<b>Changed</b>	Changed	N/A
Filter Changed		Client Info		<b>Changed</b>	Changed	N/A
Sample Status				<b>NORMAL</b>	NORMAL	NORMAL

**WEAR**

All component wear rates are normal.

Iron	ppm	ASTM D5185(m)	>120	<b>20</b>	29	19
Chromium	ppm	ASTM D5185(m)	>20	<b>&lt;1</b>	<1	<1
Nickel	ppm	ASTM D5185(m)	>5	<b>&lt;1</b>	<1	<1
Titanium	ppm	ASTM D5185(m)	>2	<b>0</b>	<1	<1
Silver	ppm	ASTM D5185(m)	>2	<b>0</b>	0	<1
Aluminum	ppm	ASTM D5185(m)	>20	<b>4</b>	3	2
Lead	ppm	ASTM D5185(m)	>40	<b>1</b>	2	4
Copper	ppm	ASTM D5185(m)	>330	<b>2</b>	1	2
Tin	ppm	ASTM D5185(m)	>15	<b>&lt;1</b>	<1	<1
Vanadium	ppm	ASTM D5185(m)		<b>0</b>	0	0

**CONTAMINATION**

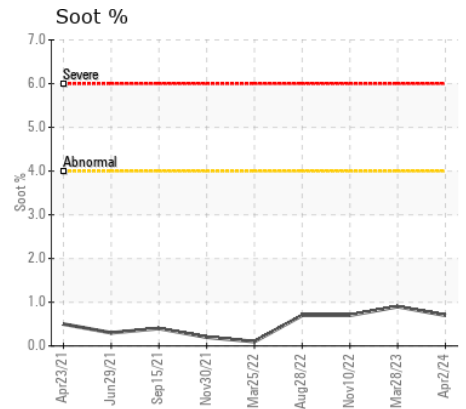
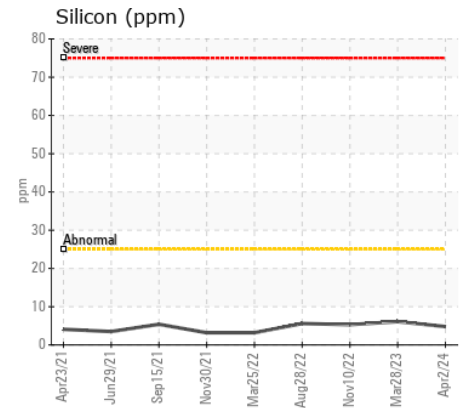
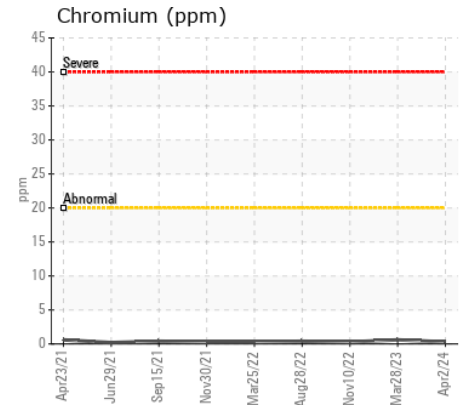
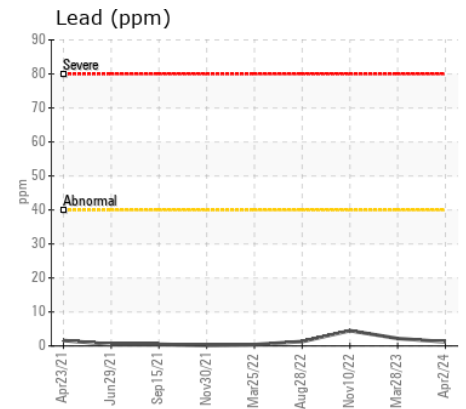
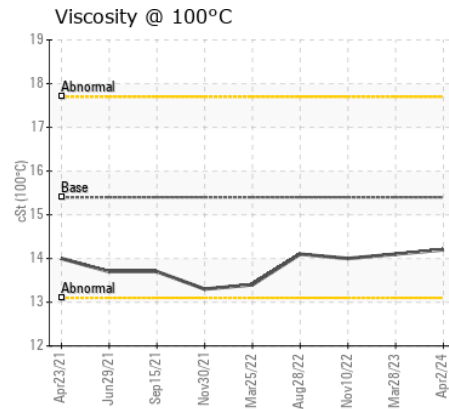
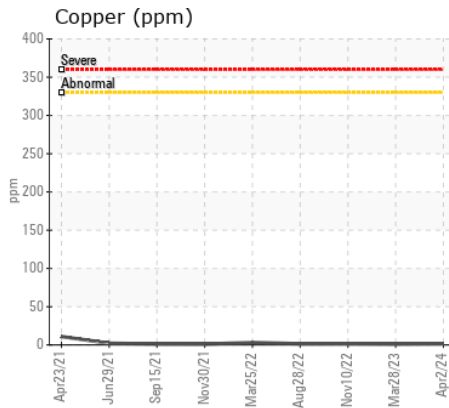
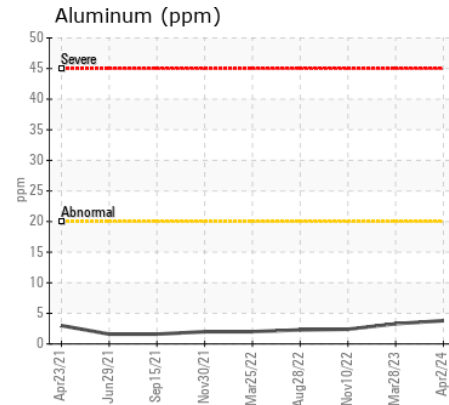
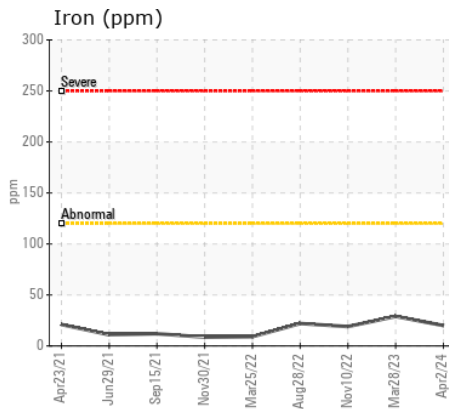
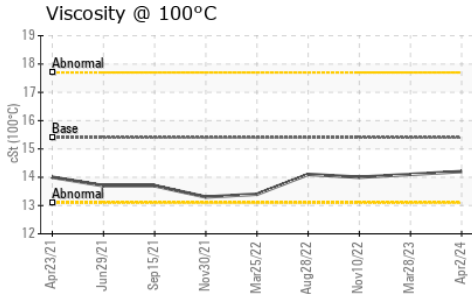
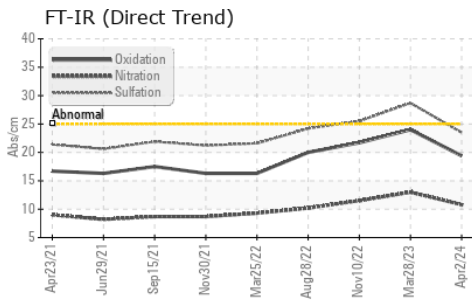
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185(m)	>25	<b>5</b>	6	5
Potassium	ppm	ASTM D5185(m)	>20	<b>2</b>	4	2
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*	>4	<b>0.7</b>	0.9	0.7
Nitration	Abs/cm	ASTM D7624*	>20	<b>10.8</b>	13.0	11.5
Sulfation	Abs/.1mm	ASTM D7415*	>30	<b>23.5</b>	28.7	25.5
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>8</b>	9	7
Boron	ppm	ASTM D5185(m)	0	<b>2</b>	2	1
Barium	ppm	ASTM D5185(m)	0	<b>0</b>	0	0
Molybdenum	ppm	ASTM D5185(m)	60	<b>62</b>	63	61
Manganese	ppm	ASTM D5185(m)	0	<b>&lt;1</b>	<1	<1
Magnesium	ppm	ASTM D5185(m)	1010	<b>979</b>	1013	989
Calcium	ppm	ASTM D5185(m)	1070	<b>1032</b>	1150	1094
Phosphorus	ppm	ASTM D5185(m)	1150	<b>933</b>	1062	1057
Zinc	ppm	ASTM D5185(m)	1270	<b>1203</b>	1256	1240
Sulfur	ppm	ASTM D5185(m)	2060	<b>2074</b>	2121	2159
Oxidation	Abs/.1mm	ASTM D7414*	>25	<b>19.4</b>	24.0	21.7
Visc @ 100°C	cSt	ASTM D7279(m)	15.4	<b>14.2</b>	14.1	14.0



**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9  
**Sample No.** : GFL0080094  
**Lab Number** : 02636846  
**Unique Number** : 5786008  
**Test Package** : MOB 1

**GFL Environmental - 577 - First Class**  
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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.