



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

Machine Id  
**501143**  
Component  
**Diesel Engine**  
Fluid  
**PETRO CANADA DURON HP 15W40 (--- GAL)**

**RECOMMENDATION**

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>GFL0118555</b>	GFL0110694	GFL0110711
Sample Date		Client Info		<b>10 Jun 2024</b>	03 Apr 2024	19 Jan 2024
Machine Age	hrs	Client Info		<b>22019</b>	21550	21125
Oil Age	hrs	Client Info		<b>0</b>	0	0
Filter Age	hrs	Client Info		<b>0</b>	0	0
Oil Changed		Client Info		<b>Changed</b>	N/A	N/A
Filter Changed		Client Info		<b>N/A</b>	N/A	N/A
Sample Status				<b>NORMAL</b>	NORMAL	NORMAL

**WEAR**

All component wear rates are normal.

Iron	ppm	ASTM D5185(m)	>165	<b>8</b>	8	11
Chromium	ppm	ASTM D5185(m)	>5	<b>&lt;1</b>	<1	1
Nickel	ppm	ASTM D5185(m)	>4	<b>0</b>	0	<1
Titanium	ppm	ASTM D5185(m)	>2	<b>0</b>	0	0
Silver	ppm	ASTM D5185(m)	>2	<b>0</b>	0	0
Aluminum	ppm	ASTM D5185(m)	>20	<b>&lt;1</b>	2	2
Lead	ppm	ASTM D5185(m)	>150	<b>&lt;1</b>	0	1
Copper	ppm	ASTM D5185(m)	>90	<b>1</b>	<1	2
Tin	ppm	ASTM D5185(m)	>5	<b>0</b>	0	<1
Vanadium	ppm	ASTM D5185(m)		<b>0</b>	0	0

**CONTAMINATION**

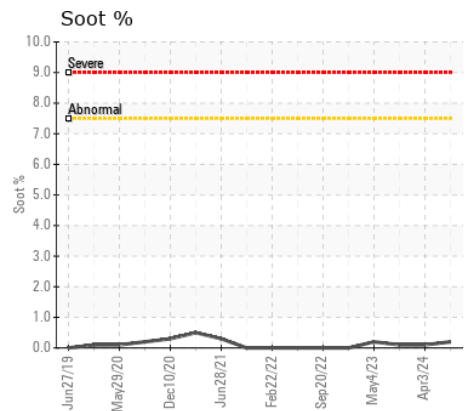
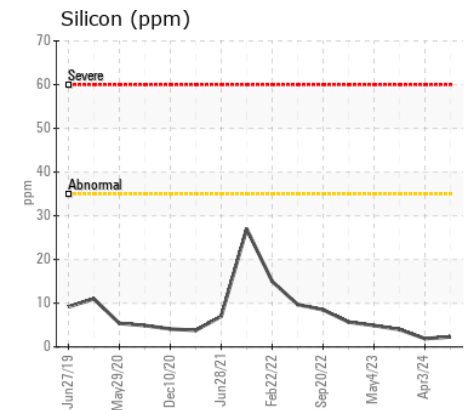
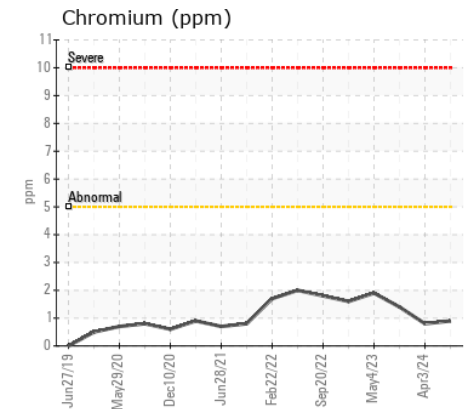
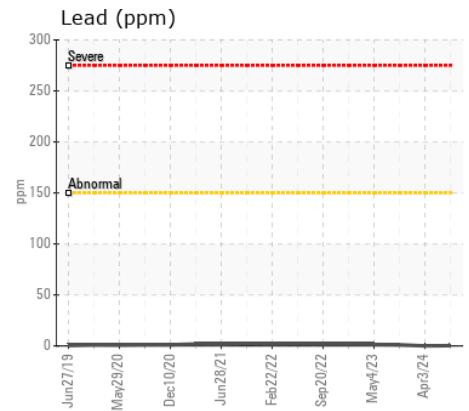
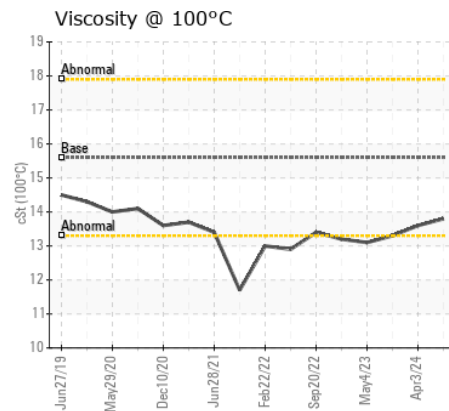
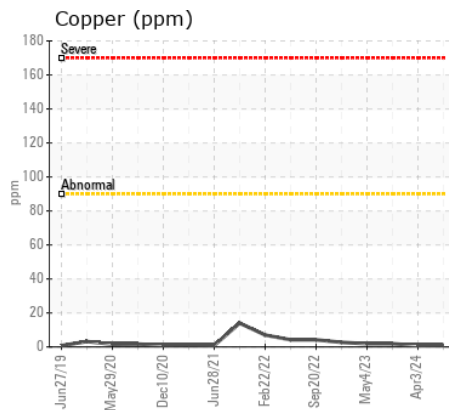
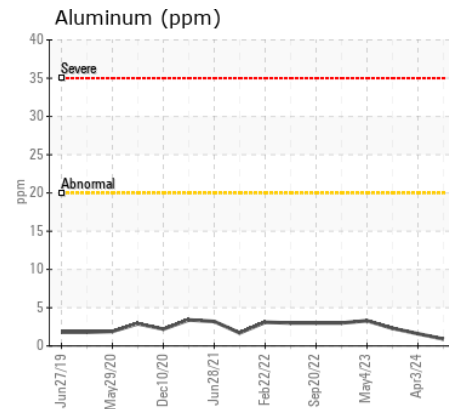
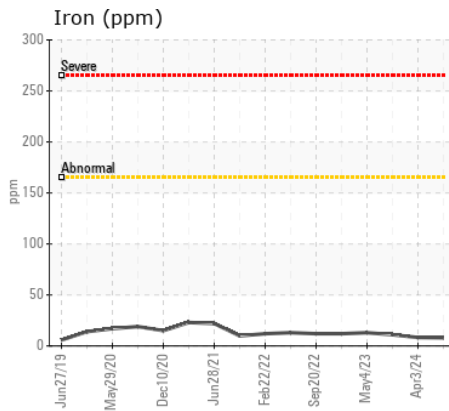
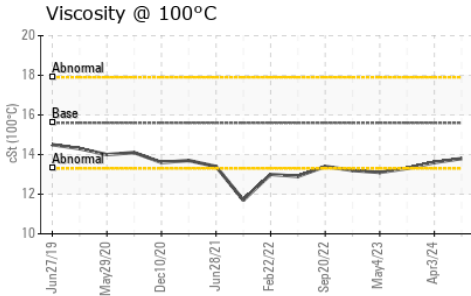
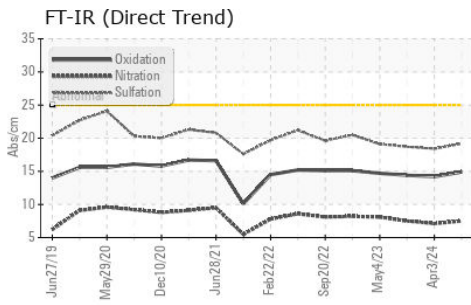
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185(m)	>35	<b>2</b>	2	4
Potassium	ppm	ASTM D5185(m)	>20	<b>&lt;1</b>	1	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*	>7.5	<b>0.2</b>	0.1	0.1
Nitration	Abs/cm	ASTM D7624*	>20	<b>7.5</b>	7.1	7.5
Sulfation	Abs/.1mm	ASTM D7415*	>30	<b>19.2</b>	18.4	18.7
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>	3	3
Boron	ppm	ASTM D5185(m)	0	<b>2</b>	3	2
Barium	ppm	ASTM D5185(m)	0	<b>0</b>	0	0
Molybdenum	ppm	ASTM D5185(m)	60	<b>60</b>	57	58
Manganese	ppm	ASTM D5185(m)	0	<b>&lt;1</b>	0	0
Magnesium	ppm	ASTM D5185(m)	1010	<b>991</b>	967	965
Calcium	ppm	ASTM D5185(m)	1070	<b>1067</b>	1028	1085
Phosphorus	ppm	ASTM D5185(m)	1150	<b>1002</b>	997	1014
Zinc	ppm	ASTM D5185(m)	1270	<b>1203</b>	1188	1193
Sulfur	ppm	ASTM D5185(m)	2060	<b>2522</b>	2552	2719
Oxidation	Abs/.1mm	ASTM D7414*	>25	<b>14.9</b>	14.2	14.4
Visc @ 100°C	cSt	ASTM D7279(m)	15.6	<b>13.8</b>	13.6	13.3



**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9  
**Sample No.** : GFL0118555  
**Lab Number** : 02641362  
**Unique Number** : 5798901  
**Test Package** : MOB 1

**GFL Environmental - 207 - Pickering SW**  
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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.