



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

Machine Id  
**401108**  
 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>GFL0096759</b>	GFL0084109	GFL0063679
Sample Date		Client Info		<b>13 Jun 2024</b>	21 Jun 2023	01 May 2023
Machine Age	hrs	Client Info		<b>0</b>	812757	32002
Oil Age	hrs	Client Info		<b>0</b>	0	600
Filter Age	hrs	Client Info		<b>0</b>	600	600
Oil Changed		Client Info		<b>Changed</b>	N/A	N/A
Filter Changed		Client Info		<b>Changed</b>	N/A	N/A
Sample Status				<b>NORMAL</b>	NORMAL	MARGINAL

**WEAR**

All component wear rates are normal.

Iron	ppm	ASTM D5185(m)	>100	<b>5</b>	12	22
Chromium	ppm	ASTM D5185(m)	>20	<b>&lt;1</b>	<1	<1
Nickel	ppm	ASTM D5185(m)	>4	<b>&lt;1</b>	0	0
Titanium	ppm	ASTM D5185(m)		<b>0</b>	<1	<1
Silver	ppm	ASTM D5185(m)	>3	<b>0</b>	0	0
Aluminum	ppm	ASTM D5185(m)	>20	<b>&lt;1</b>	2	1
Lead	ppm	ASTM D5185(m)	>40	<b>0</b>	1	2
Copper	ppm	ASTM D5185(m)	>330	<b>&lt;1</b>	<1	1
Tin	ppm	ASTM D5185(m)	>15	<b>0</b>	0	0
Vanadium	ppm	ASTM D5185(m)		<b>0</b>	0	0

**CONTAMINATION**

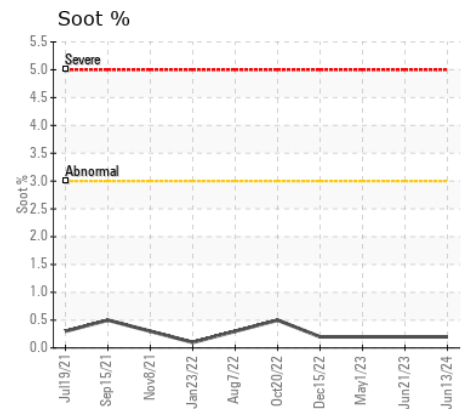
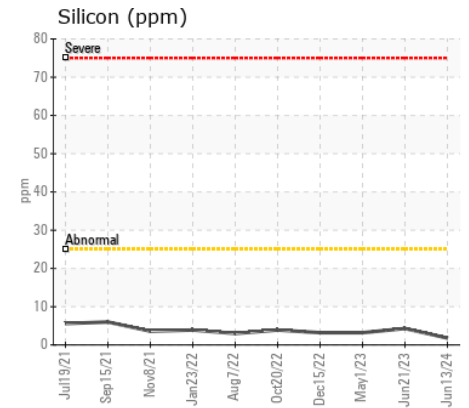
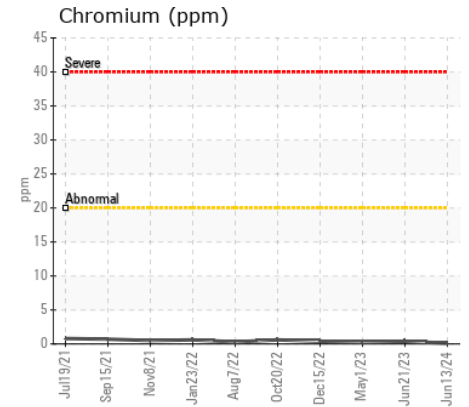
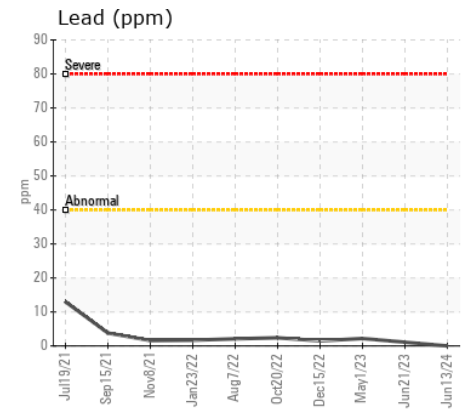
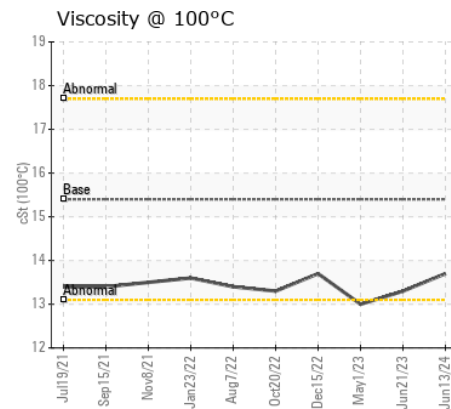
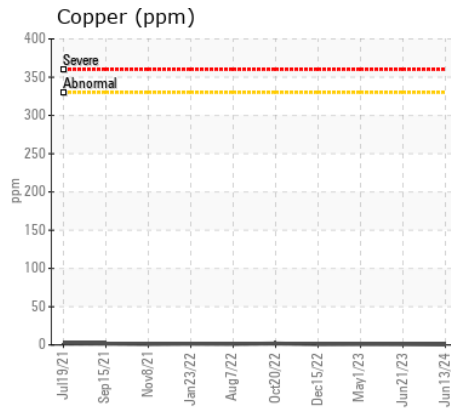
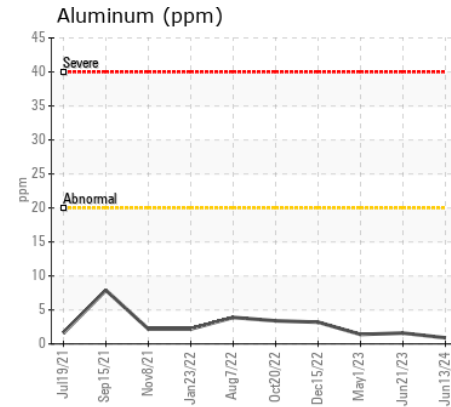
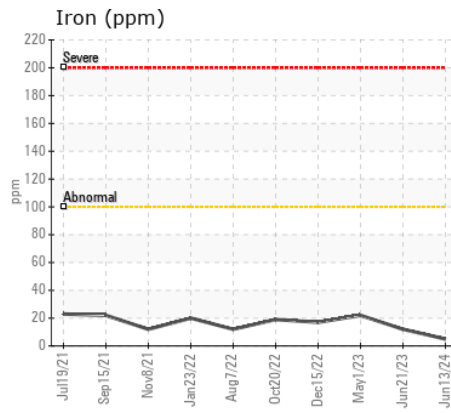
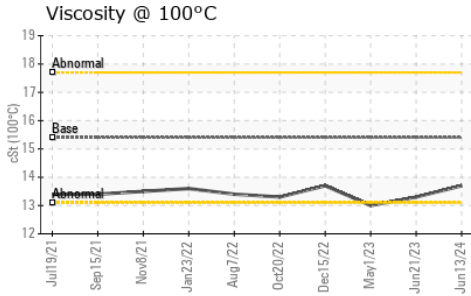
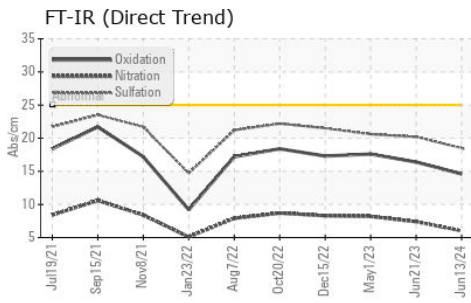
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185(m)	>25	<b>2</b>	4	3
Potassium	ppm	ASTM D5185(m)	>20	<b>&lt;1</b>	2	1
Fuel		WC Method	>5	<b>&lt;1.0</b>	<1.0	▲ 2.9
Water		WC Method	>0.2	<b>NEG</b>	NEG	NEG
Glycol		WC Method		<b>NEG</b>	NEG	NEG
Soot %	%	ASTM D7844*	>3	<b>0.2</b>	0.2	0.2
Nitration	Abs/cm	ASTM D7624*	>20	<b>6.0</b>	7.4	8.2
Sulfation	Abs/.1mm	ASTM D7415*	>30	<b>18.5</b>	20.2	20.6
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>3</b>	4	4
Boron	ppm	ASTM D5185(m)	0	<b>2</b>	4	4
Barium	ppm	ASTM D5185(m)	0	<b>0</b>	0	0
Molybdenum	ppm	ASTM D5185(m)	60	<b>56</b>	59	62
Manganese	ppm	ASTM D5185(m)	0	<b>0</b>	<1	<1
Magnesium	ppm	ASTM D5185(m)	1010	<b>917</b>	976	1003
Calcium	ppm	ASTM D5185(m)	1070	<b>1001</b>	1037	1117
Phosphorus	ppm	ASTM D5185(m)	1150	<b>939</b>	1043	1088
Zinc	ppm	ASTM D5185(m)	1270	<b>1158</b>	1174	1221
Sulfur	ppm	ASTM D5185(m)	2060	<b>2500</b>	2507	2615
Oxidation	Abs/.1mm	ASTM D7414*	>25	<b>14.6</b>	16.4	17.6
Visc @ 100°C	cSt	ASTM D7279(m)	15.4	<b>13.7</b>	13.3	13.0



**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9  
**Sample No.** : GFL0096759  
**Lab Number** : 02644764  
**Unique Number** : 5802303  
**Test Package** : MOB 1

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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.