

Area  
**[1273056]**  
Machine Id  
**801191**  
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>GFL0120327</b>	GFL0083397	GFL0065869
Sample Date		Client Info		<b>26 Jun 2024</b>	31 Aug 2023	08 Dec 2022
Machine Age	kms	Client Info		<b>0</b>	0	68238
Oil Age	kms	Client Info		<b>0</b>	0	0
Filter Age	kms	Client Info		<b>0</b>	0	0
Oil Changed		Client Info		<b>N/A</b>	N/A	N/A
Filter Changed		Client Info		<b>N/A</b>	N/A	N/A
Sample Status				<b>NORMAL</b>	NORMAL	MARGINAL

**WEAR**

All component wear rates are normal.

Iron	ppm	ASTM D5185(m)	>90	<b>13</b>	16	10
Chromium	ppm	ASTM D5185(m)	>20	<b>&lt;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	<1
Silver	ppm	ASTM D5185(m)	>2	<b>0</b>	<1	0
Aluminum	ppm	ASTM D5185(m)	>20	<b>2</b>	2	2
Lead	ppm	ASTM D5185(m)	>40	<b>0</b>	<1	0
Copper	ppm	ASTM D5185(m)	>330	<b>1</b>	2	<1
Tin	ppm	ASTM D5185(m)	>15	<b>0</b>	0	0
Vanadium	ppm	ASTM D5185(m)		<b>0</b>	0	0

**CONTAMINATION**

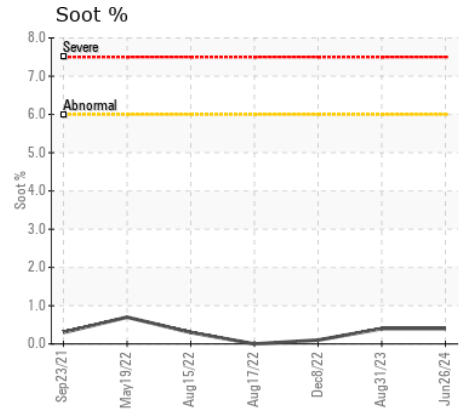
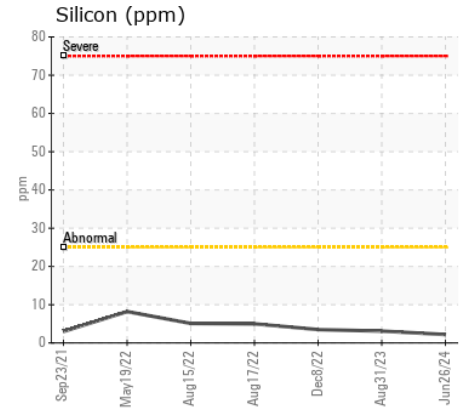
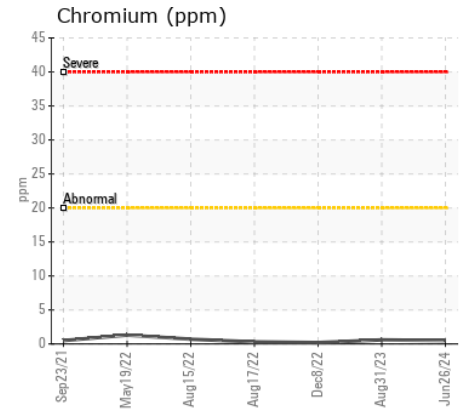
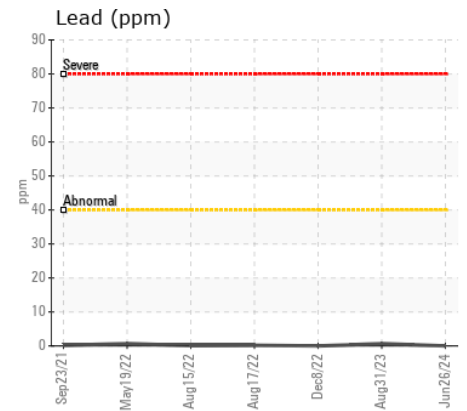
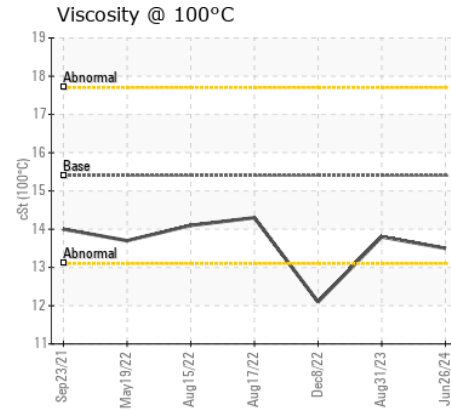
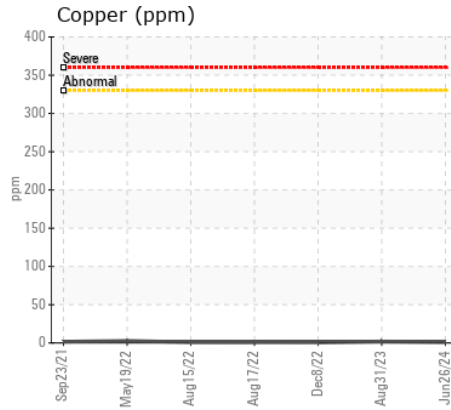
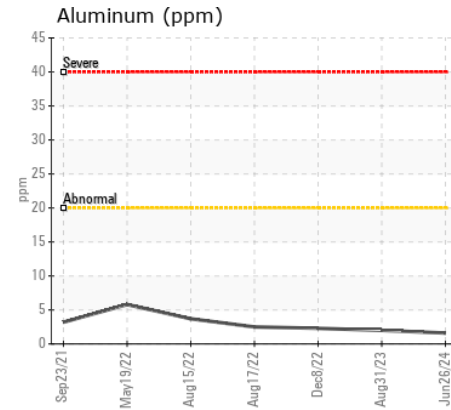
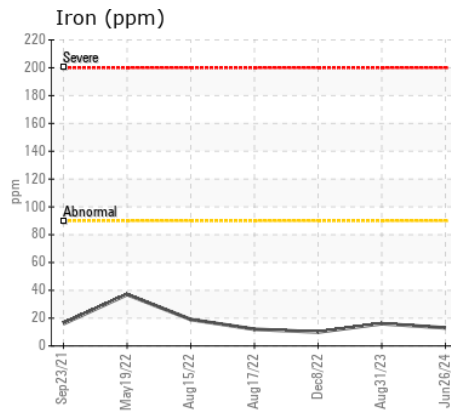
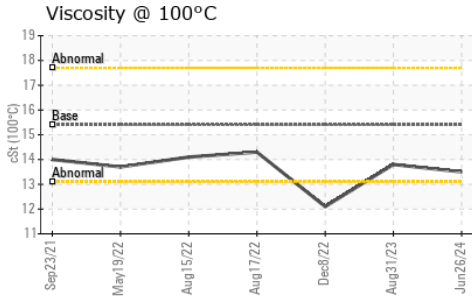
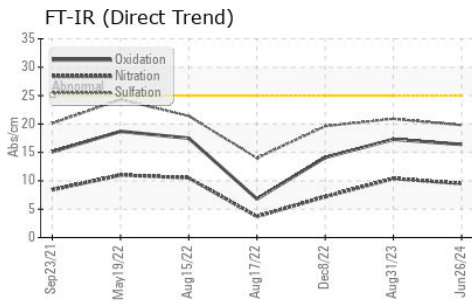
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185(m)	>25	<b>2</b>	3	4
Potassium	ppm	ASTM D5185(m)	>20	<b>&lt;1</b>	3	2
Fuel		WC Method	>3.0	<b>&lt;1.0</b>	<1.0	▲ 4.7
Water		WC Method	>0.2	<b>NEG</b>	NEG	NEG
Glycol		WC Method		<b>NEG</b>	NEG	NEG
Soot %	%	ASTM D7844*	>6	<b>0.4</b>	0.4	0.1
Nitration	Abs/cm	ASTM D7624*	>20	<b>9.5</b>	10.4	7.2
Sulfation	Abs/.1mm	ASTM D7415*	>30	<b>19.8</b>	20.9	19.6
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>2</b>	6	3
Boron	ppm	ASTM D5185(m)	0	<b>5</b>	5	8
Barium	ppm	ASTM D5185(m)	0	<b>0</b>	0	0
Molybdenum	ppm	ASTM D5185(m)	60	<b>58</b>	60	55
Manganese	ppm	ASTM D5185(m)	0	<b>&lt;1</b>	0	<1
Magnesium	ppm	ASTM D5185(m)	1010	<b>935</b>	940	872
Calcium	ppm	ASTM D5185(m)	1070	<b>1029</b>	1042	1025
Phosphorus	ppm	ASTM D5185(m)	1150	<b>957</b>	949	993
Zinc	ppm	ASTM D5185(m)	1270	<b>1153</b>	1178	1116
Sulfur	ppm	ASTM D5185(m)	2060	<b>2370</b>	2359	2493
Oxidation	Abs/.1mm	ASTM D7414*	>25	<b>16.4</b>	17.3	14.1
Visc @ 100°C	cSt	ASTM D7279(m)	15.4	<b>13.5</b>	13.8	12.1



ISO 17025:2017  
Accredited  
Laboratory

**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9  
**Sample No.** : GFL0120327  
**Lab Number** : 02644309  
**Unique Number** : 5801848  
**Test Package** : MOB 1

**GFL Environmental - 851 - New Glasgow**  
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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.