

Machine Id  
**4785**  
Component  
**Diesel Engine**  
Fluid  
**PETRO CANADA DURON SHP 10W30 (--- GAL)**

**RECOMMENDATION**

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>GFL0119014</b>	GFL0102677	GFL0102637
Sample Date		Client Info		<b>26 May 2024</b>	19 Mar 2024	10 Jan 2024
Machine Age	hrs	Client Info		<b>25598</b>	25442	25078
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>N/A</b>	Changed	Changed
Filter Changed		Client Info		<b>N/A</b>	Changed	Changed
Sample Status				<b>NORMAL</b>	NORMAL	NORMAL

**WEAR**

All component wear rates are normal.

Iron	ppm	ASTM D5185(m)	>100	<b>36</b>	73	78
Chromium	ppm	ASTM D5185(m)	>20	<b>2</b>	4	4
Nickel	ppm	ASTM D5185(m)	>4	<b>0</b>	<1	<1
Titanium	ppm	ASTM D5185(m)		<b>0</b>	0	0
Silver	ppm	ASTM D5185(m)	>3	<b>0</b>	0	0
Aluminum	ppm	ASTM D5185(m)	>20	<b>2</b>	5	3
Lead	ppm	ASTM D5185(m)	>40	<b>2</b>	7	21
Copper	ppm	ASTM D5185(m)	>330	<b>11</b>	55	110
Tin	ppm	ASTM D5185(m)	>15	<b>&lt;1</b>	1	2
Vanadium	ppm	ASTM D5185(m)		<b>0</b>	0	0
White Metal	scalar	Visual*	NONE	<b>NONE</b>	---	---
Yellow Metal	scalar	Visual*	NONE	<b>NONE</b>	---	---

**CONTAMINATION**

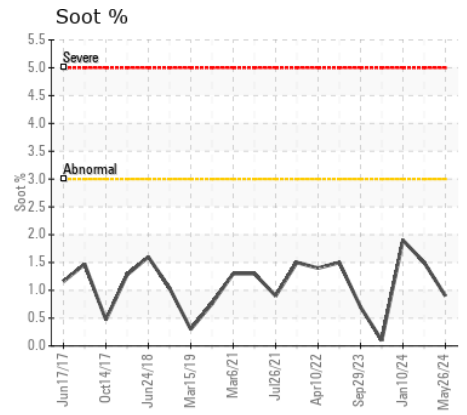
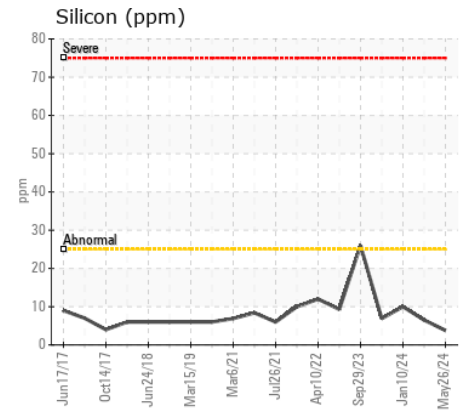
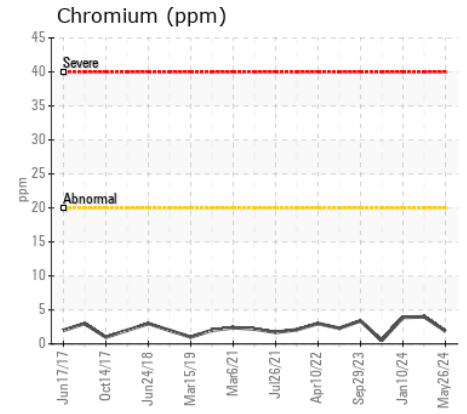
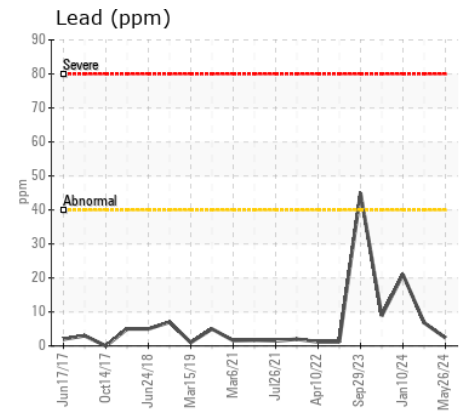
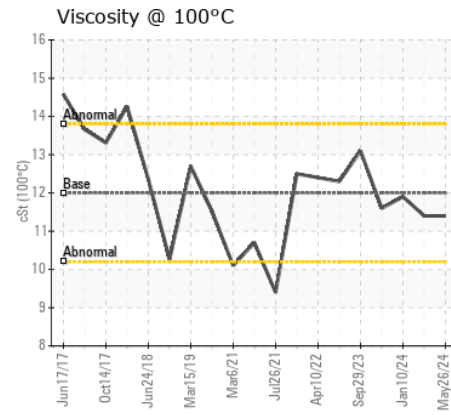
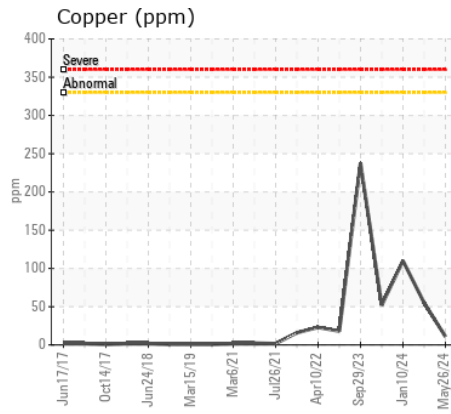
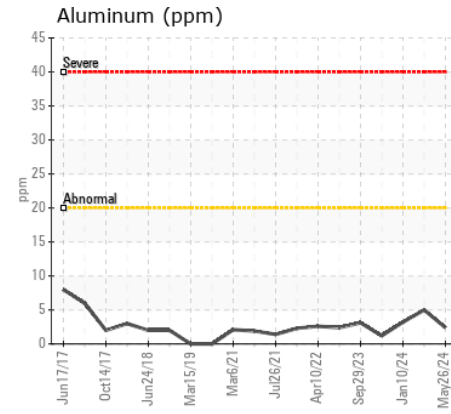
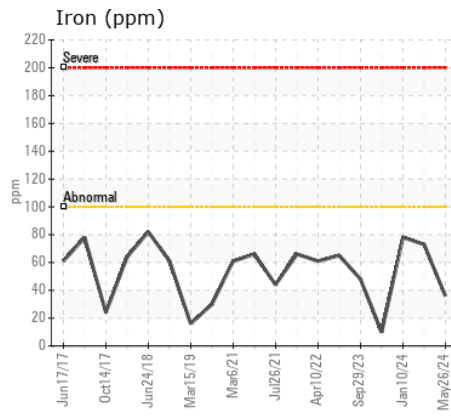
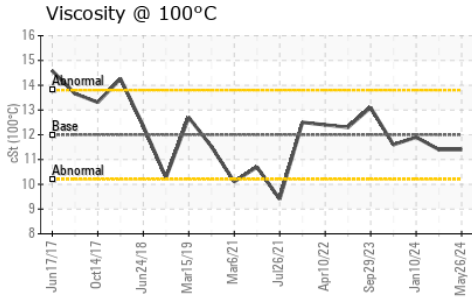
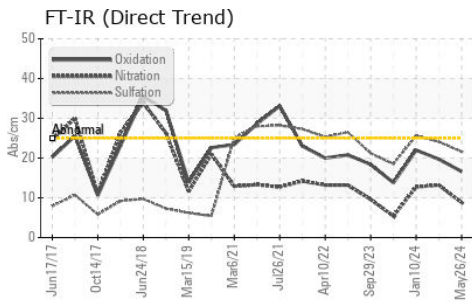
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185(m)	>25	<b>4</b>	6	10
Potassium	ppm	ASTM D5185(m)	>20	<b>&lt;1</b>	3	16
Fuel		WC Method	>5	<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	0.0
Soot %	%	ASTM D7844*	>3	<b>0.9</b>	1.5	1.9
Nitration	Abs/cm	ASTM D7624*	>20	<b>8.8</b>	13.2	12.7
Sulfation	Abs/.1mm	ASTM D7415*	>30	<b>21.6</b>	24.1	25.6
Silt	scalar	Visual*	NONE	<b>NONE</b>	---	---
Debris	scalar	Visual*	NONE	<b>NONE</b>	---	---
Sand/Dirt	scalar	Visual*	NONE	<b>NONE</b>	---	---
Appearance	scalar	Visual*	NORML	<b>NORML</b>	---	---
Odor	scalar	Visual*	NORML	<b>NORML</b>	NORML	NORML
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>6</b>	13	12
Boron	ppm	ASTM D5185(m)	2	<b>3</b>	<1	2
Barium	ppm	ASTM D5185(m)	0	<b>0</b>	0	0
Molybdenum	ppm	ASTM D5185(m)	50	<b>60</b>	63	63
Manganese	ppm	ASTM D5185(m)	0	<b>&lt;1</b>	<1	<1
Magnesium	ppm	ASTM D5185(m)	950	<b>970</b>	988	1016
Calcium	ppm	ASTM D5185(m)	1050	<b>1071</b>	1094	1157
Phosphorus	ppm	ASTM D5185(m)	995	<b>1011</b>	956	993
Zinc	ppm	ASTM D5185(m)	1180	<b>1187</b>	1207	1232
Sulfur	ppm	ASTM D5185(m)	2600	<b>2406</b>	2176	2226
Oxidation	Abs/.1mm	ASTM D7414*	>25	<b>16.6</b>	19.7	22.0
Visc @ 100°C	cSt	ASTM D7279(m)	12.00	<b>11.4</b>	11.4	11.9



ISO 17025:2017  
Accredited  
Laboratory

**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9  
**Sample No.** : GFL0119014  
**Lab Number** : 02638395  
**Unique Number** : 5787557  
**Test Package** : MOB 1 ( Additional Tests: Visual )

**GFL Environmental - 554 - Edmonton 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.