



Machine Id  
**819023**  
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>GFL0107327</b>	GFL0107333	GFL0107311
Sample Date		Client Info		<b>07 Jun 2024</b>	01 Apr 2024	14 Dec 2023
Machine Age	hrs	Client Info		<b>2403</b>	600	1436
Oil Age	hrs	Client Info		<b>600</b>	600	600
Filter Age	hrs	Client Info		<b>600</b>	600	600
Oil Changed		Client Info		<b>Changed</b>	Changed	Changed
Filter Changed		Client Info		<b>Changed</b>	N/A	Changed
Sample Status				<b>NORMAL</b>	NORMAL	NORMAL

**WEAR**

All component wear rates are normal.

Iron	ppm	ASTM D5185(m)	>80	<b>25</b>	30	35
Chromium	ppm	ASTM D5185(m)	>5	<b>&lt;1</b>	<1	<1
Nickel	ppm	ASTM D5185(m)	>2	<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	<1
Aluminum	ppm	ASTM D5185(m)	>30	<b>3</b>	4	4
Lead	ppm	ASTM D5185(m)	>30	<b>0</b>	0	2
Copper	ppm	ASTM D5185(m)	>150	<b>7</b>	22	85
Tin	ppm	ASTM D5185(m)	>5	<b>0</b>	0	<1
Vanadium	ppm	ASTM D5185(m)		<b>0</b>	0	0

**CONTAMINATION**

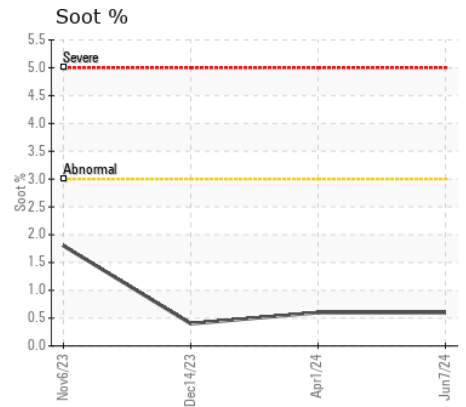
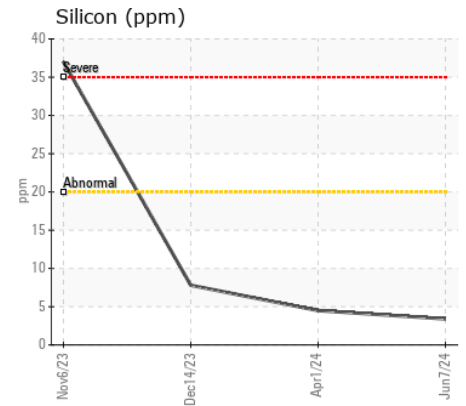
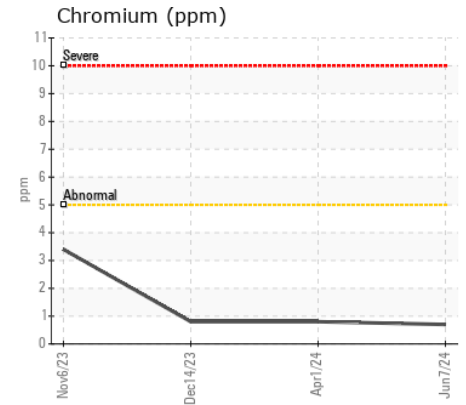
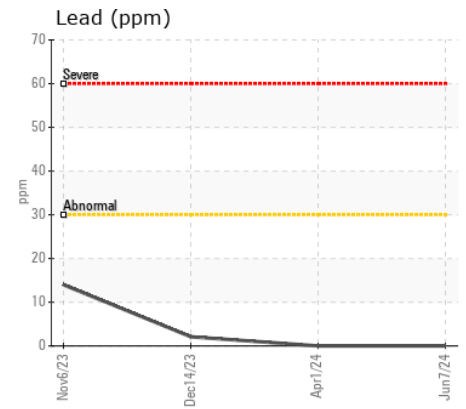
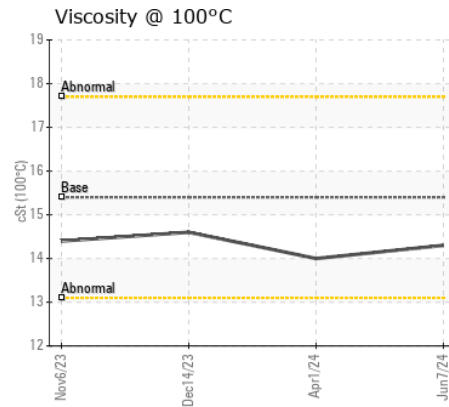
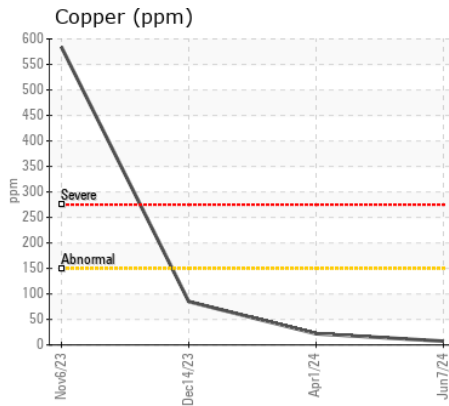
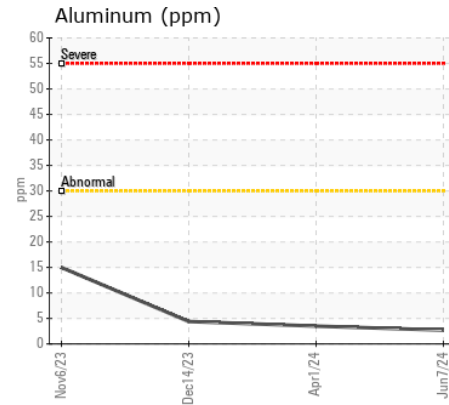
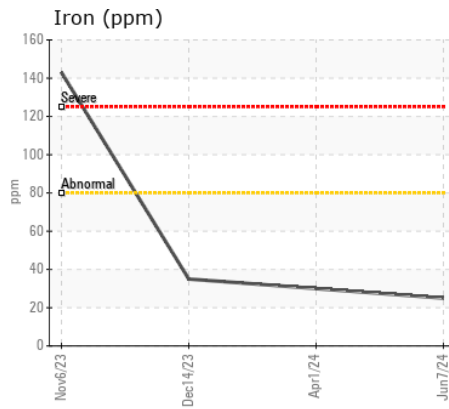
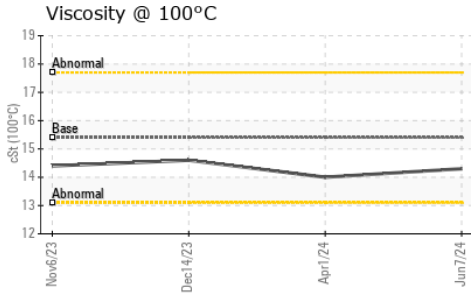
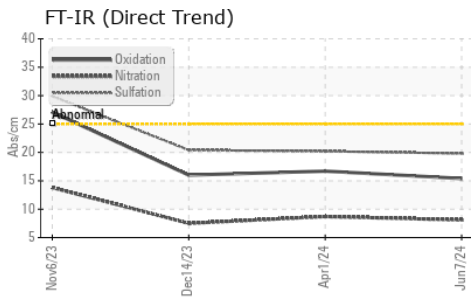
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185(m)	>20	<b>3</b>	4	8
Potassium	ppm	ASTM D5185(m)	>20	<b>1</b>	3	4
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	NEG
Soot %	%	ASTM D7844*	>3	<b>0.6</b>	0.6	0.4
Nitration	Abs/cm	ASTM D7624*	>20	<b>8.1</b>	8.7	7.5
Sulfation	Abs/.1mm	ASTM D7415*	>30	<b>19.8</b>	20.2	20.4
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>	6	5
Boron	ppm	ASTM D5185(m)	0	<b>4</b>	2	6
Barium	ppm	ASTM D5185(m)	0	<b>0</b>	<1	<1
Molybdenum	ppm	ASTM D5185(m)	60	<b>60</b>	61	67
Manganese	ppm	ASTM D5185(m)	0	<b>&lt;1</b>	0	<1
Magnesium	ppm	ASTM D5185(m)	1010	<b>969</b>	963	928
Calcium	ppm	ASTM D5185(m)	1070	<b>1042</b>	1062	1133
Phosphorus	ppm	ASTM D5185(m)	1150	<b>949</b>	924	946
Zinc	ppm	ASTM D5185(m)	1270	<b>1171</b>	1162	1130
Sulfur	ppm	ASTM D5185(m)	2060	<b>2335</b>	2085	2377
Oxidation	Abs/.1mm	ASTM D7414*	>25	<b>15.4</b>	16.7	16.0
Visc @ 100°C	cSt	ASTM D7279(m)	15.4	<b>14.3</b>	14.0	14.6



**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9  
**Sample No.** : GFL0107327  
**Lab Number** : 02641322  
**Unique Number** : 5798861  
**Test Package** : MOB 1

**Received** : 12 Jun 2024  
**Tested** : 12 Jun 2024  
**Diagnosed** : 12 Jun 2024 - Wes Davis  
**GFL Environmental - 250 - Sault Ste Marie Hauling + MRF**  
 86 Sackville Rd,  
 Sault Ste. Marie, ON  
 CA P6B 4T6  
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 T: (705)945-7554  
 F: (705)945-7857

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.