



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

Machine Id  
**920120**  
 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>GFL</b>	GFL0099604	GFL0091576
Sample Date		Client Info		<b>30 Jun 2024</b>	19 Dec 2023	11 Oct 2023
Machine Age	hrs	Client Info		<b>204763</b>	7163	155310
Oil Age	hrs	Client Info		<b>0</b>	450	0
Filter Age	hrs	Client Info		<b>0</b>	450	0
Oil Changed		Client Info		<b>Changed</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)	>110	<b>38</b>	18	25
Chromium	ppm	ASTM D5185(m)	>4	<b>2</b>	<1	<1
Nickel	ppm	ASTM D5185(m)	>2	<b>&lt;1</b>	<1	0
Titanium	ppm	ASTM D5185(m)		<b>0</b>	0	0
Silver	ppm	ASTM D5185(m)	>2	<b>&lt;1</b>	0	<1
Aluminum	ppm	ASTM D5185(m)	>25	<b>5</b>	3	3
Lead	ppm	ASTM D5185(m)	>45	<b>0</b>	0	0
Copper	ppm	ASTM D5185(m)	>85	<b>4</b>	2	2
Tin	ppm	ASTM D5185(m)	>4	<b>0</b>	0	0
Vanadium	ppm	ASTM D5185(m)		<b>0</b>	0	0

**CONTAMINATION**

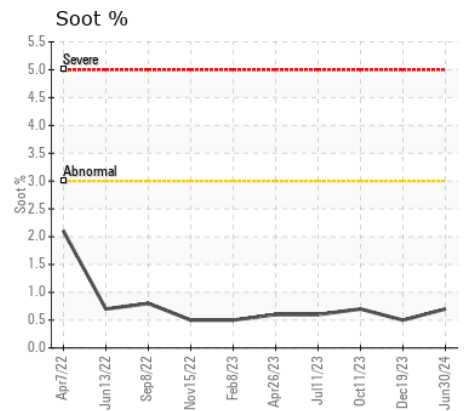
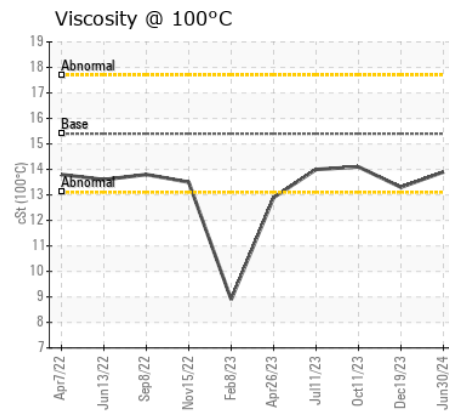
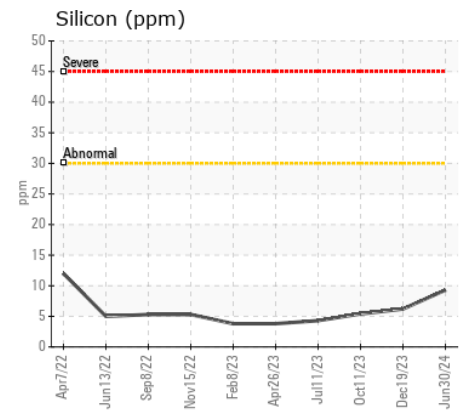
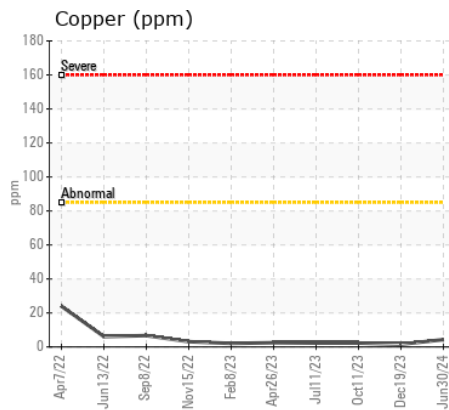
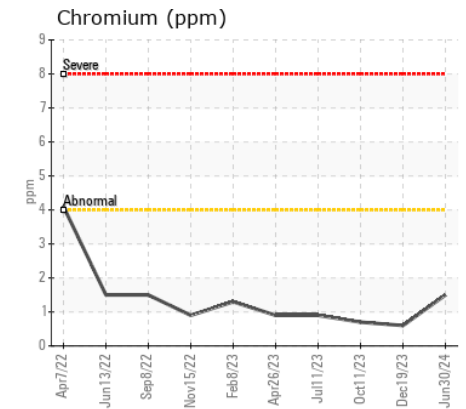
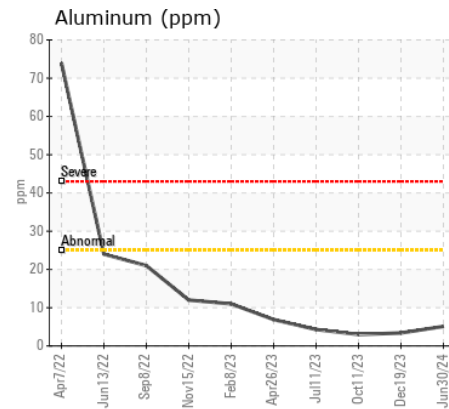
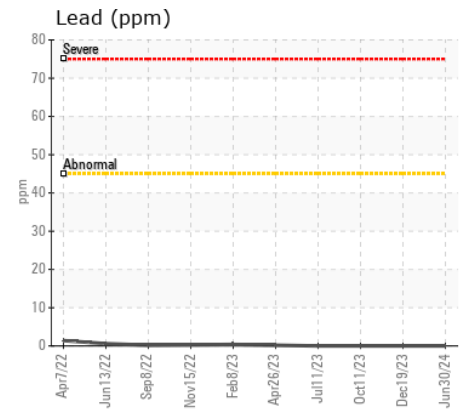
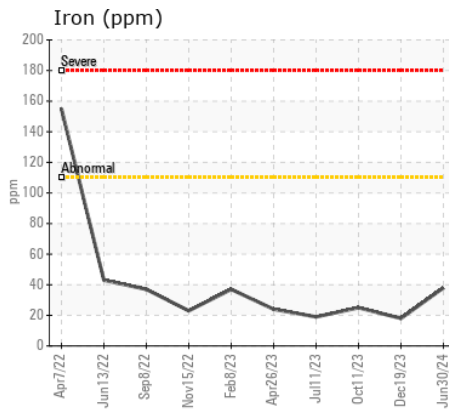
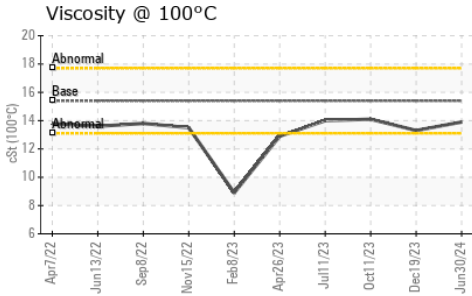
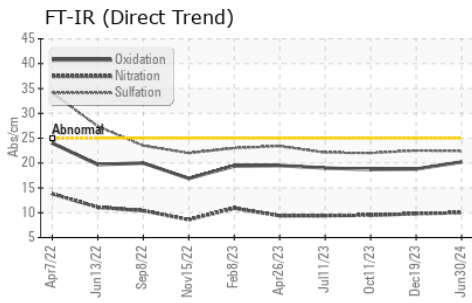
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185(m)	>30	<b>9</b>	6	5
Potassium	ppm	ASTM D5185(m)	>20	<b>3</b>	4	2
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>0.7</b>	0.5	0.7
Nitration	Abs/cm	ASTM D7624*	>20	<b>10.0</b>	9.8	9.5
Sulfation	Abs/.1mm	ASTM D7415*	>30	<b>22.4</b>	22.5	22.0
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>7</b>	5	6
Boron	ppm	ASTM D5185(m)	0	<b>8</b>	2	2
Barium	ppm	ASTM D5185(m)	0	<b>0</b>	0	<1
Molybdenum	ppm	ASTM D5185(m)	60	<b>64</b>	58	60
Manganese	ppm	ASTM D5185(m)	0	<b>&lt;1</b>	0	0
Magnesium	ppm	ASTM D5185(m)	1010	<b>997</b>	944	981
Calcium	ppm	ASTM D5185(m)	1070	<b>1120</b>	1092	1068
Phosphorus	ppm	ASTM D5185(m)	1150	<b>995</b>	1007	990
Zinc	ppm	ASTM D5185(m)	1270	<b>1216</b>	1179	1211
Sulfur	ppm	ASTM D5185(m)	2060	<b>2341</b>	2546	2410
Oxidation	Abs/.1mm	ASTM D7414*	>25	<b>20.2</b>	18.8	18.7
Visc @ 100°C	cSt	ASTM D7279(m)	15.4	<b>13.9</b>	13.3	14.1



**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9  
**Sample No.** : GFL  
**Lab Number** : 02645724  
**Unique Number** : 5803263  
**Test Package** : MOB 1  
**Received** : 05 Jul 2024  
**Tested** : 05 Jul 2024  
**Diagnosed** : 05 Jul 2024 - Wes Davis

**GFL Environmental - 550 - Rocky View County**  
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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.