



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

Machine Id  
**901123**  
 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>GFL0100602</b>	GFL0100638	GFL0100633
Sample Date		Client Info		<b>01 Mar 2024</b>	15 Dec 2023	15 Nov 2023
Machine Age	hrs	Client Info		<b>16670</b>	301513	16085
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>Changed</b>	N/A	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)	>110	<b>18</b>	11	44
Chromium	ppm	ASTM D5185(m)	>4	<b>&lt;1</b>	<1	2
Nickel	ppm	ASTM D5185(m)	>2	<b>&lt;1</b>	<1	<1
Titanium	ppm	ASTM D5185(m)		<b>0</b>	0	0
Silver	ppm	ASTM D5185(m)	>2	<b>0</b>	0	<1
Aluminum	ppm	ASTM D5185(m)	>25	<b>4</b>	3	10
Lead	ppm	ASTM D5185(m)	>45	<b>&lt;1</b>	<1	2
Copper	ppm	ASTM D5185(m)	>85	<b>2</b>	1	5
Tin	ppm	ASTM D5185(m)	>4	<b>0</b>	0	0
Vanadium	ppm	ASTM D5185(m)		<b>0</b>	0	0

**CONTAMINATION**

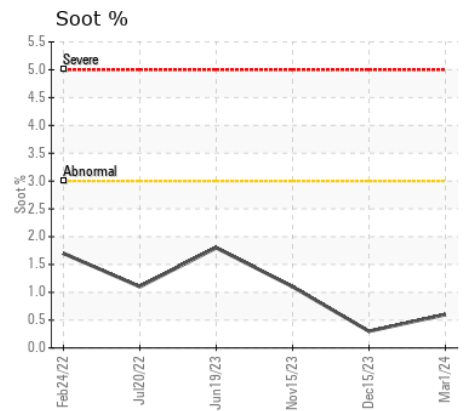
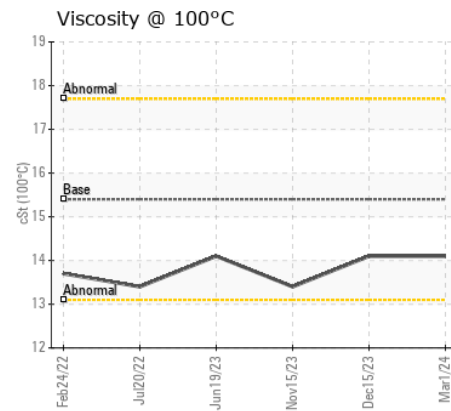
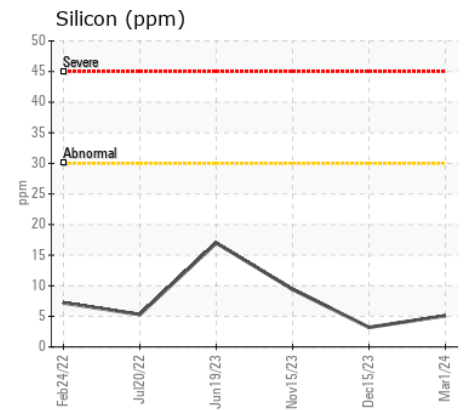
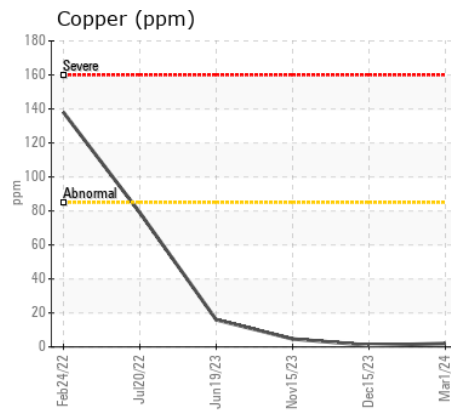
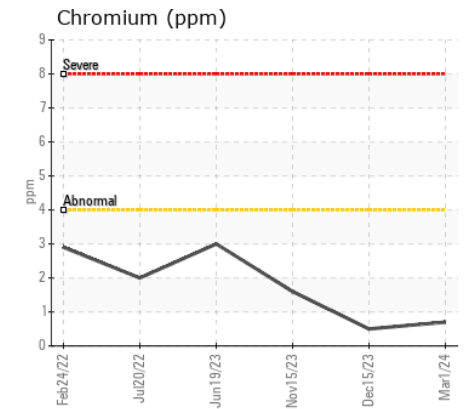
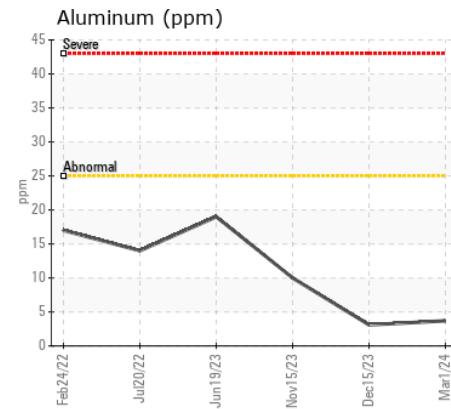
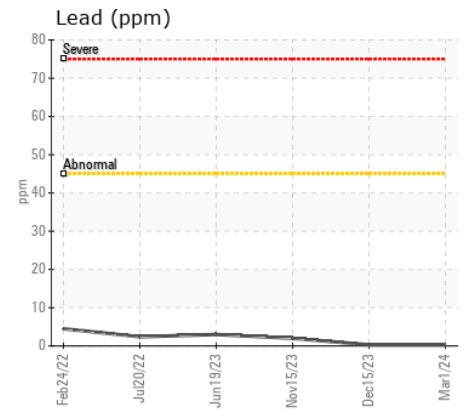
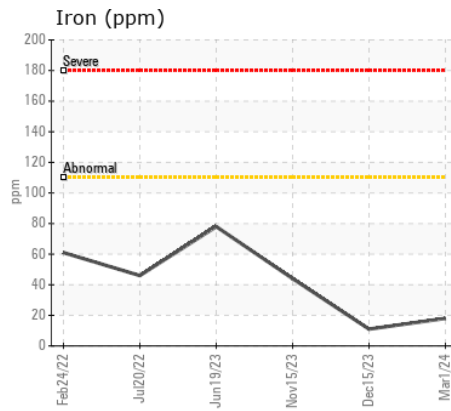
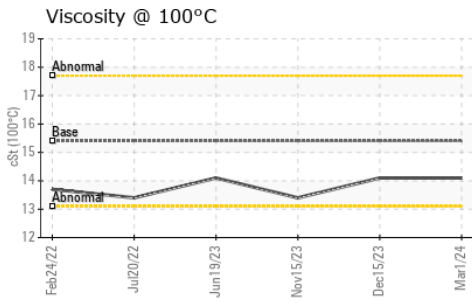
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185(m)	>30	<b>5</b>	3	9
Potassium	ppm	ASTM D5185(m)	>20	<b>2</b>	1	3
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>	0.3	1.1
Nitration	Abs/cm	ASTM D7624*	>20	<b>8.8</b>	7.1	11.9
Sulfation	Abs/.1mm	ASTM D7415*	>30	<b>19.8</b>	19.2	24.6
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>4</b>	4	8
Boron	ppm	ASTM D5185(m)	0	<b>3</b>	3	2
Barium	ppm	ASTM D5185(m)	0	<b>0</b>	0	<1
Molybdenum	ppm	ASTM D5185(m)	60	<b>60</b>	58	62
Manganese	ppm	ASTM D5185(m)	0	<b>0</b>	0	<1
Magnesium	ppm	ASTM D5185(m)	1010	<b>957</b>	947	975
Calcium	ppm	ASTM D5185(m)	1070	<b>1078</b>	1055	1079
Phosphorus	ppm	ASTM D5185(m)	1150	<b>1000</b>	991	937
Zinc	ppm	ASTM D5185(m)	1270	<b>1182</b>	1162	1172
Sulfur	ppm	ASTM D5185(m)	2060	<b>2640</b>	2688	2360
Oxidation	Abs/.1mm	ASTM D7414*	>25	<b>15.4</b>	14.8	21.3
Visc @ 100°C	cSt	ASTM D7279(m)	15.4	<b>14.1</b>	14.1	13.4



ISO 17025:2017  
Accredited  
Laboratory

**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9  
**Sample No.** : GFL0100602  
**Lab Number** : 02620072  
**Unique Number** : 5737182  
**Test Package** : MOB 1  
**Received** : 06 Mar 2024  
**Tested** : 06 Mar 2024  
**Diagnosed** : 06 Mar 2024 - Wes Davis

**GFL Environmental - 575 - Squamish Hauling**  
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 Squamish, BC  
 CA V8B 0K8  
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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.