



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

Machine Id  
**701038**

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>GFL0097444</b>	GFL0085660	GFL0085692
Sample Date		Client Info		<b>09 Jan 2024</b>	08 Nov 2023	15 Aug 2023
Machine Age	hrs	Client Info		<b>757</b>	757	757
Oil Age	hrs	Client Info		<b>757</b>	757	757
Filter Age	hrs	Client Info		<b>757</b>	757	757
Oil Changed		Client Info		<b>Changed</b>	Changed	Changed
Filter Changed		Client Info		<b>Changed</b>	Changed	Changed
Sample Status				<b>NORMAL</b>	NORMAL	NORMAL

**WEAR**

Metal levels are typical for a new component breaking in.

Iron	ppm	ASTM D5185(m)	>100	<b>12</b>	20	14
Chromium	ppm	ASTM D5185(m)	>20	<b>&lt;1</b>	<1	<1
Nickel	ppm	ASTM D5185(m)	>4	<b>&lt;1</b>	<1	0
Titanium	ppm	ASTM D5185(m)		<b>0</b>	0	0
Silver	ppm	ASTM D5185(m)	>3	<b>0</b>	<1	<1
Aluminum	ppm	ASTM D5185(m)	>20	<b>2</b>	2	2
Lead	ppm	ASTM D5185(m)	>40	<b>&lt;1</b>	0	0
Copper	ppm	ASTM D5185(m)	>330	<b>&lt;1</b>	1	<1
Tin	ppm	ASTM D5185(m)	>15	<b>0</b>	0	0
Vanadium	ppm	ASTM D5185(m)		<b>0</b>	0	0

**CONTAMINATION**

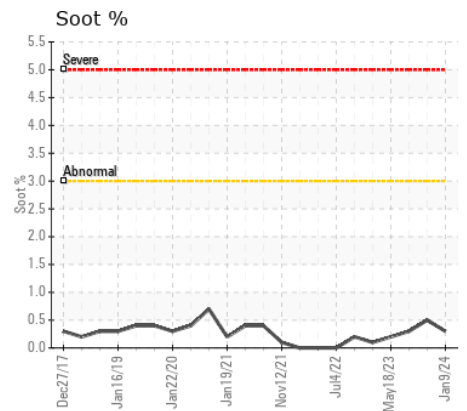
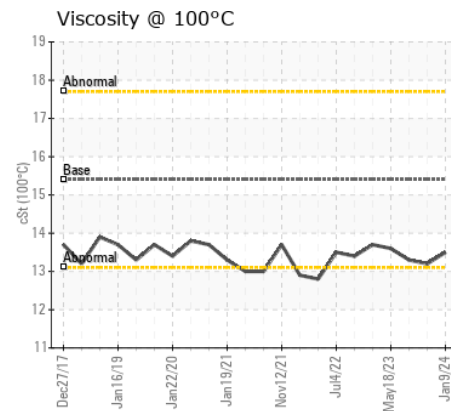
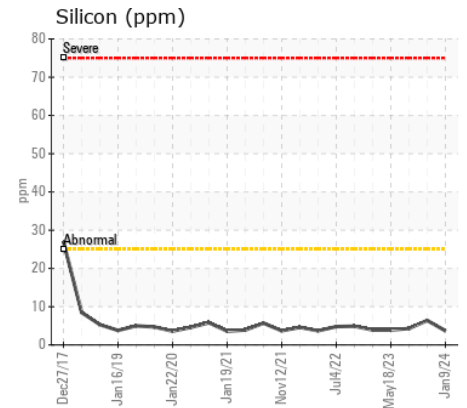
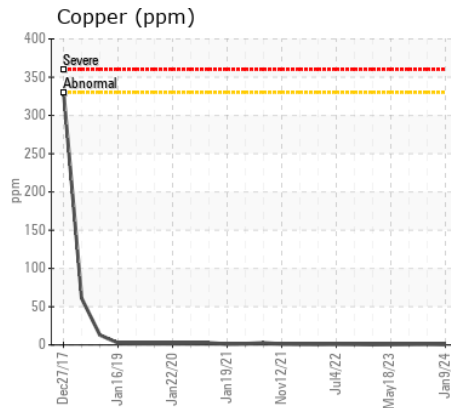
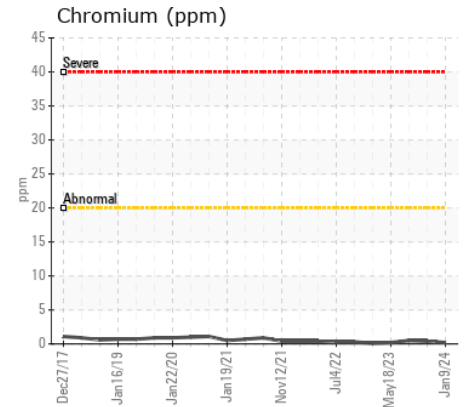
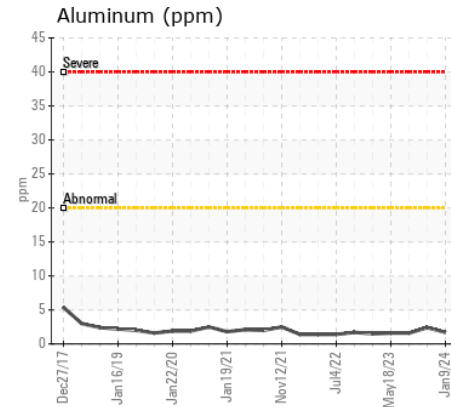
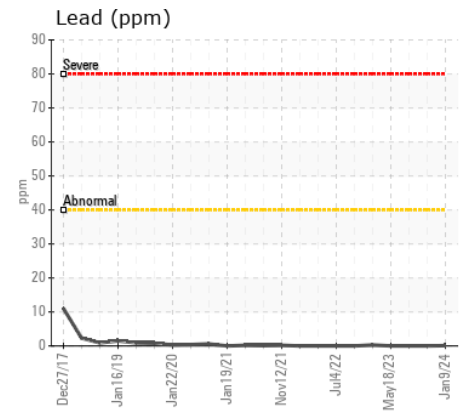
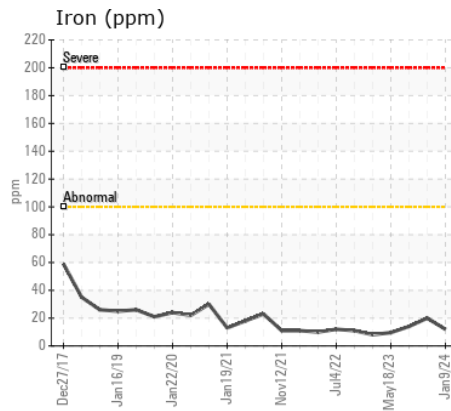
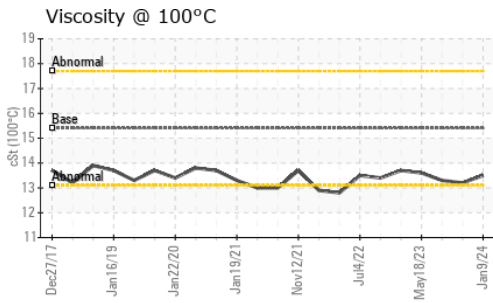
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185(m)	>25	<b>4</b>	6	4
Potassium	ppm	ASTM D5185(m)	>20	<b>5</b>	2	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>0.3</b>	0.5	0.3
Nitration	Abs/cm	ASTM D7624*	>20	<b>9.7</b>	10.5	9.9
Sulfation	Abs/.1mm	ASTM D7415*	>30	<b>20.9</b>	22.9	22.6
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>1</b>	2	2
Boron	ppm	ASTM D5185(m)	0	<b>2</b>	2	2
Barium	ppm	ASTM D5185(m)	0	<b>0</b>	0	0
Molybdenum	ppm	ASTM D5185(m)	60	<b>56</b>	58	58
Manganese	ppm	ASTM D5185(m)	0	<b>0</b>	0	<1
Magnesium	ppm	ASTM D5185(m)	1010	<b>914</b>	929	955
Calcium	ppm	ASTM D5185(m)	1070	<b>1015</b>	1010	1040
Phosphorus	ppm	ASTM D5185(m)	1150	<b>974</b>	968	1036
Zinc	ppm	ASTM D5185(m)	1270	<b>1134</b>	1151	1198
Sulfur	ppm	ASTM D5185(m)	2060	<b>2478</b>	2248	2398
Oxidation	Abs/.1mm	ASTM D7414*	>25	<b>18.4</b>	20.8	19.1
Visc @ 100°C	cSt	ASTM D7279(m)	15.4	<b>13.5</b>	13.2	13.3



**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9  
**Sample No.** : GFL0097444 **Received** : 11 Jan 2024  
**Lab Number** : 02608110 **Diagnosed** : 11 Jan 2024  
**Unique Number** : 5709196 **Diagnostician** : Wes Davis  
**Test Package** : MOB 1

**GFL Environmental - 221 - Windsor**  
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 Windsor, ON  
 CA N8W 4J5  
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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.

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F: