



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



Machine Id  
**701036**  
Component  
**Diesel Engine**  
Fluid  
**PETRO CANADA DURON SHP 15W40 (19 LTR)**

**RECOMMENDATION**

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>GFL0122324</b>	GFL0111728	GFL0107151
Sample Date		Client Info		<b>02 Jul 2024</b>	04 Mar 2024	13 Dec 2023
Machine Age	kms	Client Info		<b>47121</b>	11065	10666
Oil Age	kms	Client Info		<b>0</b>	0	511
Filter Age	kms	Client Info		<b>0</b>	0	0
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)	>75	<b>13</b>	10	13
Chromium	ppm	ASTM D5185(m)	>5	<b>&lt;1</b>	<1	<1
Nickel	ppm	ASTM D5185(m)	>4	<b>&lt;1</b>	<1	<1
Titanium	ppm	ASTM D5185(m)	>2	<b>0</b>	0	0
Silver	ppm	ASTM D5185(m)	>2	<b>&lt;1</b>	0	<1
Aluminum	ppm	ASTM D5185(m)	>15	<b>3</b>	2	3
Lead	ppm	ASTM D5185(m)	>25	<b>0</b>	<1	<1
Copper	ppm	ASTM D5185(m)	>100	<b>1</b>	<1	1
Tin	ppm	ASTM D5185(m)	>4	<b>0</b>	0	0
Vanadium	ppm	ASTM D5185(m)		<b>0</b>	0	0

**CONTAMINATION**

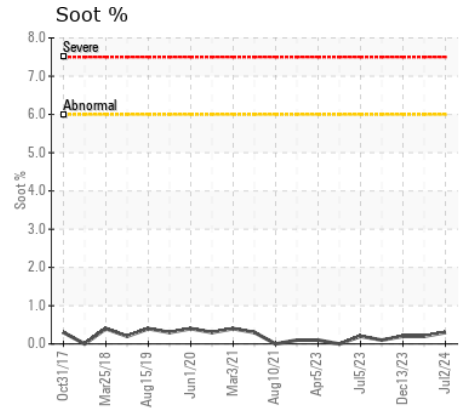
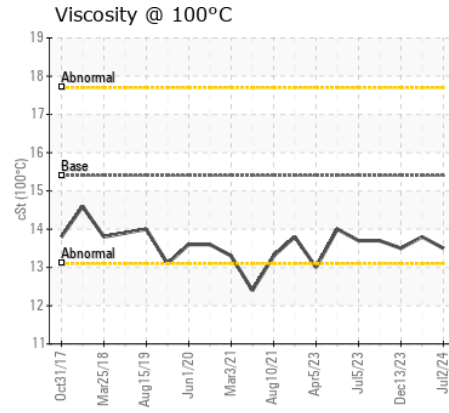
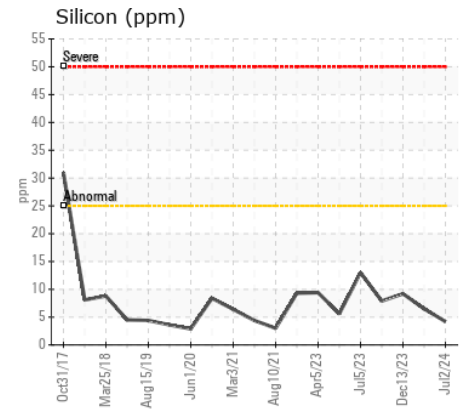
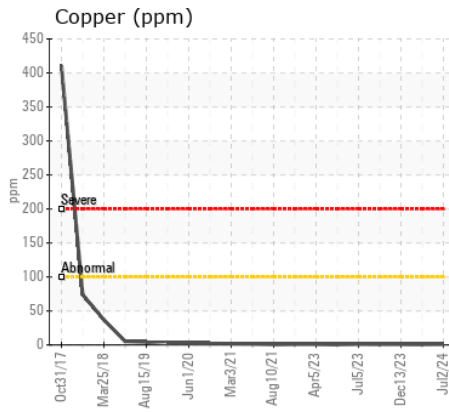
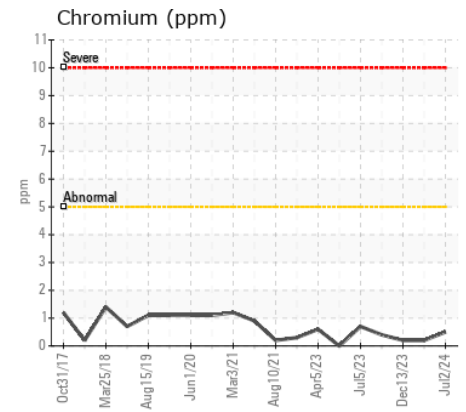
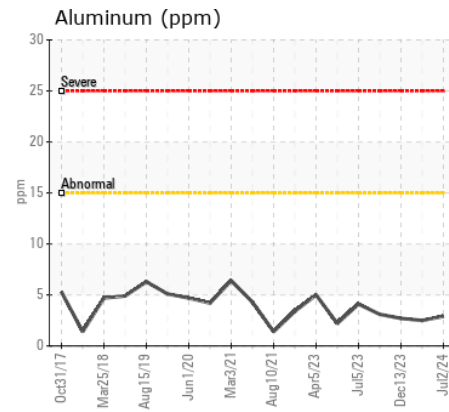
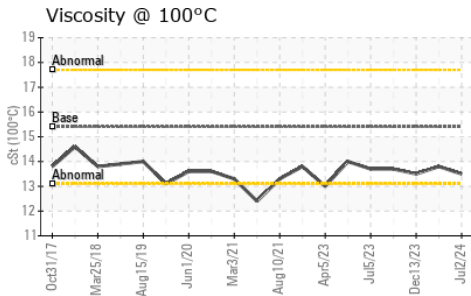
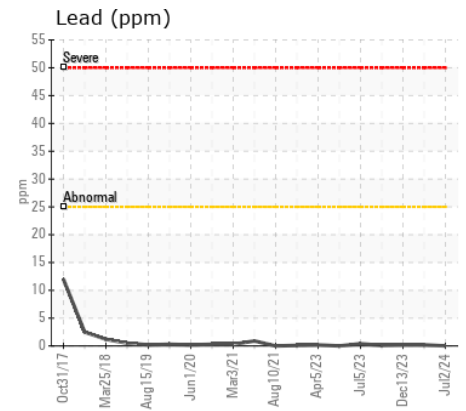
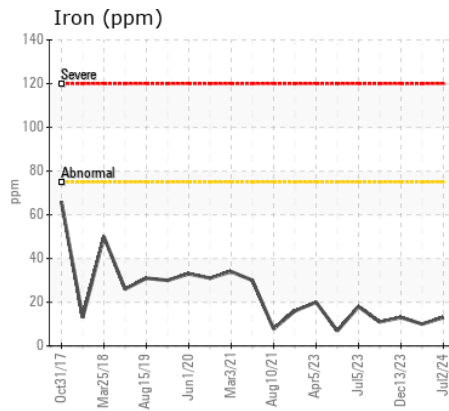
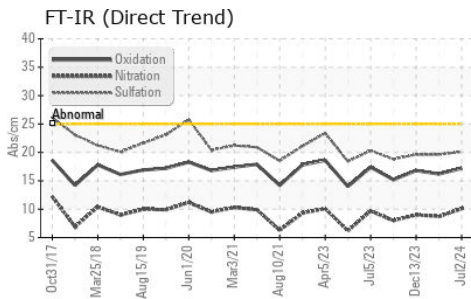
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185(m)	>25	<b>4</b>	6	9
Potassium	ppm	ASTM D5185(m)	>20	<b>2</b>	2	2
Fuel		WC Method	>3.0	<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*	>6	<b>0.3</b>	0.2	0.2
Nitration	Abs/cm	ASTM D7624*	>20	<b>10.1</b>	8.7	9.0
Sulfation	Abs/.1mm	ASTM D7415*	>30	<b>20.1</b>	19.6	19.6
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>6</b>	6	6
Boron	ppm	ASTM D5185(m)	0	<b>5</b>	12	4
Barium	ppm	ASTM D5185(m)	0	<b>0</b>	0	<1
Molybdenum	ppm	ASTM D5185(m)	60	<b>58</b>	58	60
Manganese	ppm	ASTM D5185(m)	0	<b>&lt;1</b>	0	0
Magnesium	ppm	ASTM D5185(m)	1010	<b>911</b>	920	953
Calcium	ppm	ASTM D5185(m)	1070	<b>1031</b>	1044	1051
Phosphorus	ppm	ASTM D5185(m)	1150	<b>939</b>	1007	956
Zinc	ppm	ASTM D5185(m)	1270	<b>1170</b>	1175	1200
Sulfur	ppm	ASTM D5185(m)	2060	<b>2422</b>	2640	2414
Oxidation	Abs/.1mm	ASTM D7414*	>25	<b>17.2</b>	16.2	16.8
Visc @ 100°C	cSt	ASTM D7279(m)	15.4	<b>13.5</b>	13.8	13.5



**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9  
**Sample No.** : GFL0122324  
**Lab Number** : 02645167  
**Unique Number** : 5802706  
**Test Package** : MOB 1  
**Received** : 03 Jul 2024  
**Tested** : 03 Jul 2024  
**Diagnosed** : 03 Jul 2024 - Wes Davis

**GFL Environmental - 217 - Aurora**  
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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.