



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



Machine Id  
**801047**  
Component  
**Diesel Engine**  
Fluid  
**PETRO CANADA DURON SHP 15W40 (19 LTR)**

**RECOMMENDATION**

No corrective action is recommended at this time. Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>GFL0117872</b>	GFL0111727	WC0875082
Sample Date		Client Info		<b>02 May 2024</b>	11 Mar 2024	22 Nov 2023
Machine Age	kms	Client Info		<b>674167</b>	10256	9850
Oil Age	kms	Client Info		<b>0</b>	0	0
Filter Age	kms	Client Info		<b>0</b>	0	0
Oil Changed		Client Info		<b>N/A</b>	Changed	Not Changd
Filter Changed		Client Info		<b>N/A</b>	Changed	Not Changd
Sample Status				<b>MARGINAL</b>	SEVERE	MARGINAL

**WEAR**

All component wear rates are normal.

Iron	ppm	ASTM D5185(m)	>80	<b>13</b>	21	4
Chromium	ppm	ASTM D5185(m)	>5	<b>&lt;1</b>	<1	0
Nickel	ppm	ASTM D5185(m)	>2	<b>0</b>	<1	0
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>2</b>	4	2
Lead	ppm	ASTM D5185(m)	>30	<b>0</b>	0	0
Copper	ppm	ASTM D5185(m)	>150	<b>2</b>	1	<1
Tin	ppm	ASTM D5185(m)	>5	<b>0</b>	0	0
Vanadium	ppm	ASTM D5185(m)		<b>0</b>	0	0

**CONTAMINATION**

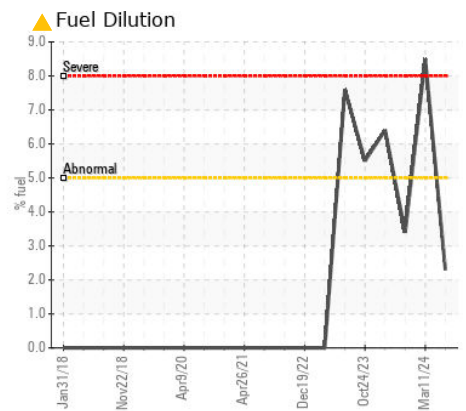
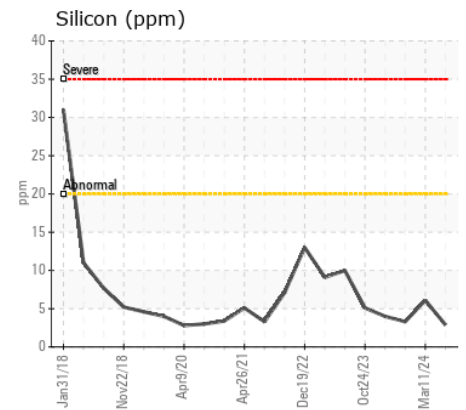
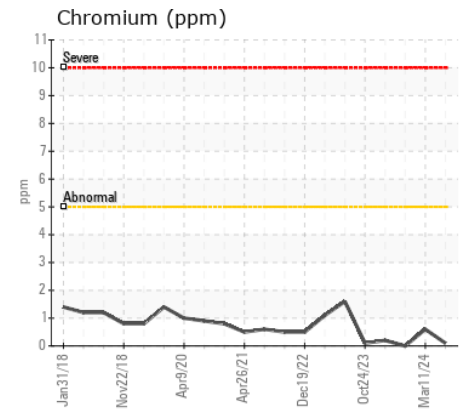
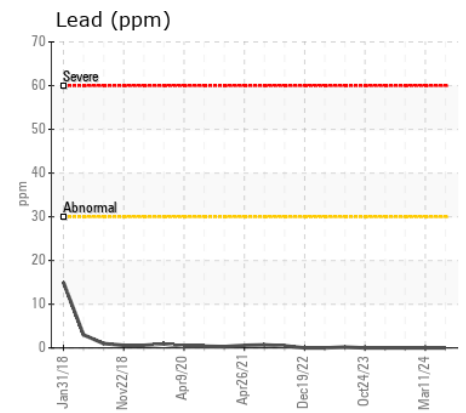
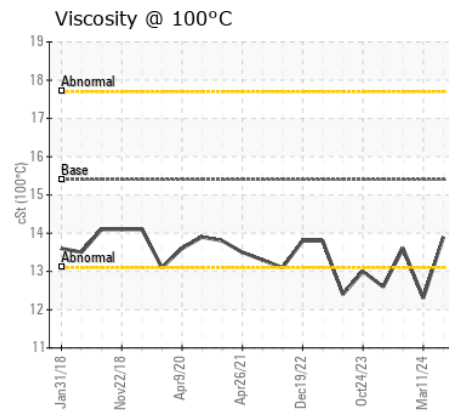
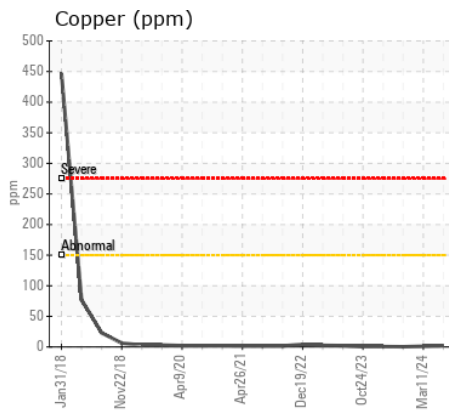
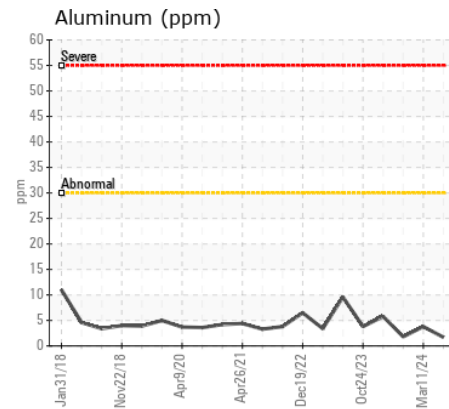
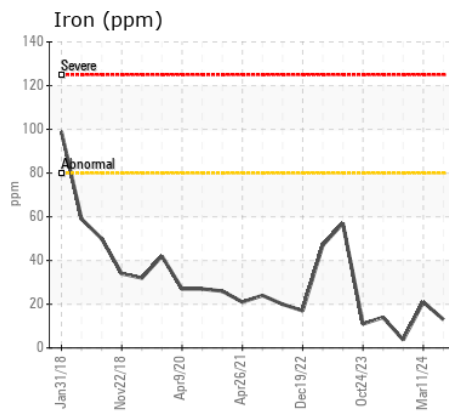
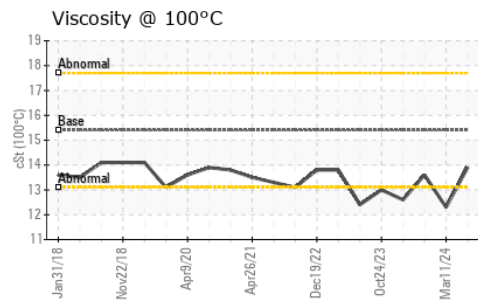
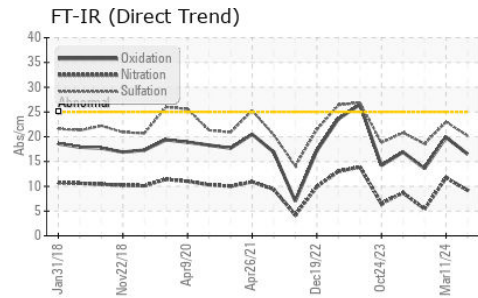
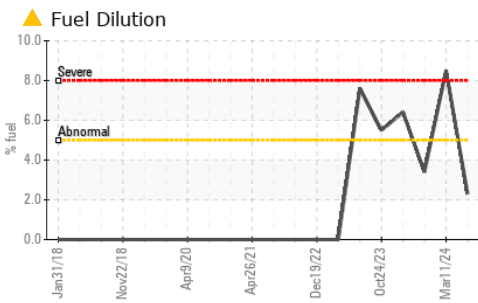
Light fuel dilution occurring. No other contaminants were detected in the oil.

Silicon	ppm	ASTM D5185(m)	>20	<b>3</b>	6	3
Potassium	ppm	ASTM D5185(m)	>20	<b>2</b>	4	1
Fuel	%	ASTM D7593*	>5	<b>▲ 2.3</b>	▲ 8.5	▲ 3.4
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>	0.6	0
Nitration	Abs/cm	ASTM D7624*	>20	<b>9.2</b>	11.7	5.4
Sulfation	Abs/.1mm	ASTM D7415*	>30	<b>20.2</b>	23.0	18.6
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>5</b>	6	3
Boron	ppm	ASTM D5185(m)	0	<b>8</b>	18	37
Barium	ppm	ASTM D5185(m)	0	<b>0</b>	0	0
Molybdenum	ppm	ASTM D5185(m)	60	<b>57</b>	55	58
Manganese	ppm	ASTM D5185(m)	0	<b>&lt;1</b>	0	0
Magnesium	ppm	ASTM D5185(m)	1010	<b>890</b>	795	871
Calcium	ppm	ASTM D5185(m)	1070	<b>1012</b>	948	1024
Phosphorus	ppm	ASTM D5185(m)	1150	<b>954</b>	845	957
Zinc	ppm	ASTM D5185(m)	1270	<b>1136</b>	1029	1143
Sulfur	ppm	ASTM D5185(m)	2060	<b>2426</b>	2315	2538
Oxidation	Abs/.1mm	ASTM D7414*	>25	<b>16.5</b>	19.9	13.6
Visc @ 100°C	cSt	ASTM D7279(m)	15.4	<b>13.9</b>	▲ 12.3	13.6



**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9  
**Sample No.** : GFL0117872 **Received** : 06 May 2024  
**Lab Number** : 02633412 **Tested** : 07 May 2024  
**Unique Number** : 5774565 **Diagnosed** : 07 May 2024 - Wes Davis  
**Test Package** : MOB 1 ( Additional Tests: PercentFuel )

**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.