



Machine Id  
**801051**  
 Component  
**Diesel Engine**  
 Fluid  
**PETRO CANADA DURON SHP 15W40 (20 LTR)**

**RECOMMENDATION**

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>GFL0117911</b>	GFL0107127	GFL0091063
Sample Date		Client Info		<b>11 Apr 2024</b>	16 Jan 2024	17 Aug 2023
Machine Age	kms	Client Info		<b>175095</b>	13612	140354
Oil Age	kms	Client Info		<b>7500</b>	0	0
Filter Age	kms	Client Info		<b>7500</b>	0	0
Oil Changed		Client Info		<b>Changed</b>	Changed	Changed
Filter Changed		Client Info		<b>Changed</b>	Changed	N/A
Sample Status				<b>NORMAL</b>	NORMAL	NORMAL

**WEAR**

All component wear rates are normal.

Iron	ppm	ASTM D5185(m)	>75	<b>16</b>	13	14
Chromium	ppm	ASTM D5185(m)	>5	<b>&lt;1</b>	<1	<1
Nickel	ppm	ASTM D5185(m)	>4	<b>0</b>	<1	0
Titanium	ppm	ASTM D5185(m)	>2	<b>0</b>	0	0
Silver	ppm	ASTM D5185(m)	>2	<b>0</b>	0	<1
Aluminum	ppm	ASTM D5185(m)	>15	<b>2</b>	2	4
Lead	ppm	ASTM D5185(m)	>25	<b>0</b>	0	0
Copper	ppm	ASTM D5185(m)	>100	<b>&lt;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**

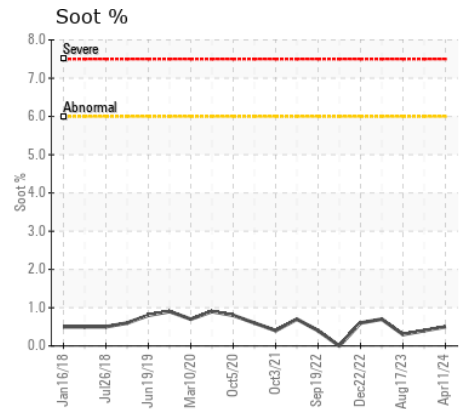
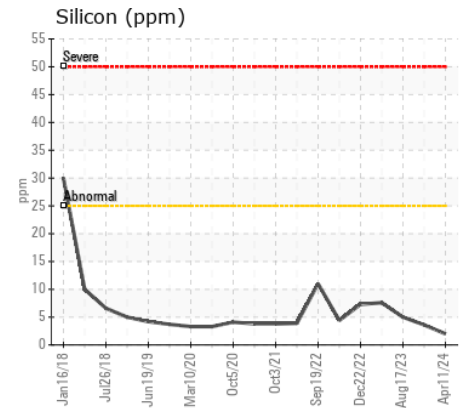
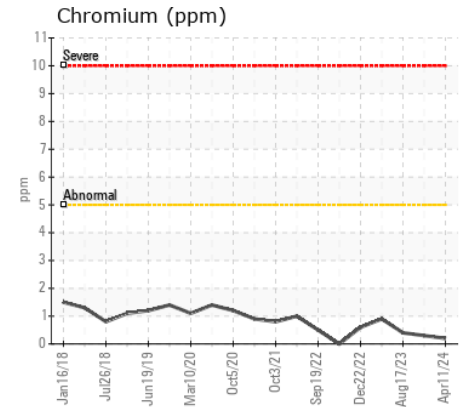
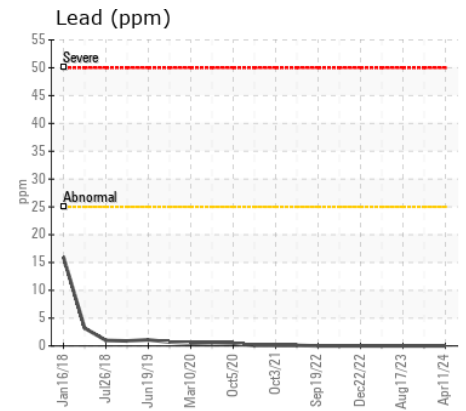
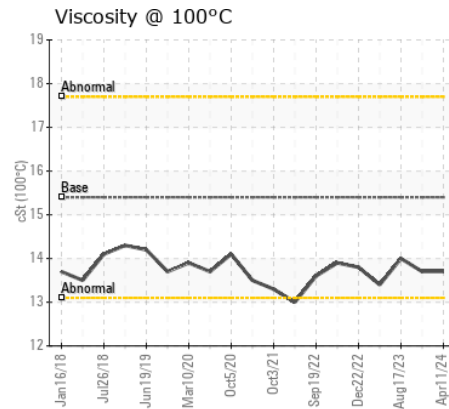
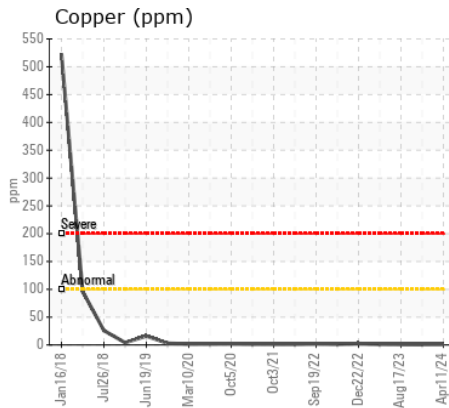
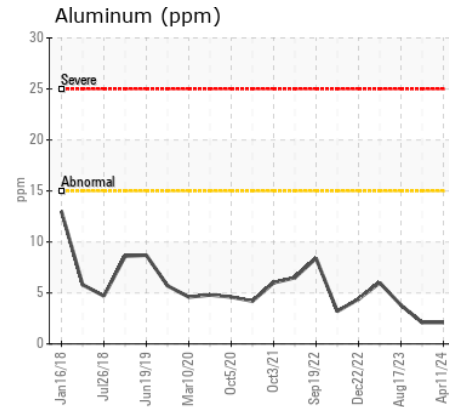
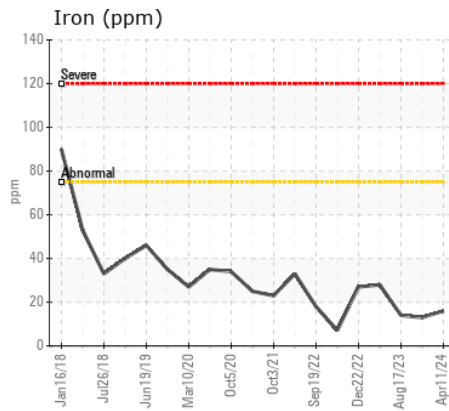
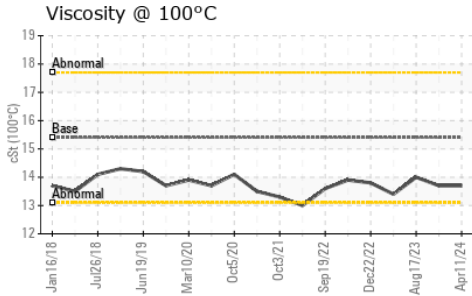
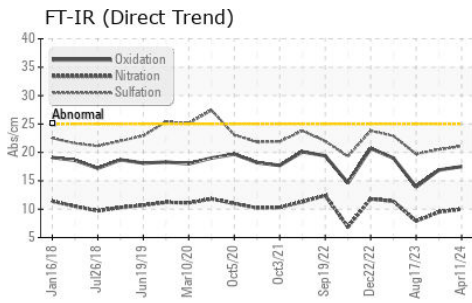
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185(m)	>25	<b>2</b>	4	5
Potassium	ppm	ASTM D5185(m)	>20	<b>&lt;1</b>	2	4
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>0.5</b>	0.4	0.3
Nitration	Abs/cm	ASTM D7624*	>20	<b>10.0</b>	9.5	7.9
Sulfation	Abs/.1mm	ASTM D7415*	>30	<b>21.1</b>	20.5	19.7
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>10</b>	8	7
Boron	ppm	ASTM D5185(m)	0	<b>6</b>	7	5
Barium	ppm	ASTM D5185(m)	0	<b>0</b>	0	0
Molybdenum	ppm	ASTM D5185(m)	60	<b>59</b>	57	60
Manganese	ppm	ASTM D5185(m)	0	<b>&lt;1</b>	0	<1
Magnesium	ppm	ASTM D5185(m)	1010	<b>946</b>	905	956
Calcium	ppm	ASTM D5185(m)	1070	<b>1015</b>	1043	1048
Phosphorus	ppm	ASTM D5185(m)	1150	<b>956</b>	968	1037
Zinc	ppm	ASTM D5185(m)	1270	<b>1154</b>	1140	1173
Sulfur	ppm	ASTM D5185(m)	2060	<b>2369</b>	2533	2561
Oxidation	Abs/.1mm	ASTM D7414*	>25	<b>17.5</b>	16.9	13.9
Visc @ 100°C	cSt	ASTM D7279(m)	15.4	<b>13.7</b>	13.7	14.0



**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9  
**Sample No.** : GFL0117911  
**Lab Number** : 02628634  
**Unique Number** : 5761766  
**Test Package** : MOB 1

**GFL Environmental - 217 - Aurora**  
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 Contact: Mike Havens  
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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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