



Machine Id  
**801042**  
Component  
**Diesel Engine**  
Fluid  
**PETRO CANADA DURON SHP 15W40 (22 LTR)**

**RECOMMENDATION**

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>GFL0117879</b>	GFL0111725	WC0875089
Sample Date		Client Info		<b>08 May 2024</b>	11 Mar 2024	21 Nov 2023
Machine Age	hrs	Client Info		<b>12999</b>	12599	12056
Oil Age	hrs	Client Info		<b>600</b>	0	0
Filter Age	hrs	Client Info		<b>600</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**

All component wear rates are normal.

Iron	ppm	ASTM D5185(m)	>80	<b>18</b>	27	13
Chromium	ppm	ASTM D5185(m)	>5	<b>&lt;1</b>	<1	<1
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>	3	2
Lead	ppm	ASTM D5185(m)	>30	<b>0</b>	0	0
Copper	ppm	ASTM D5185(m)	>150	<b>&lt;1</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**

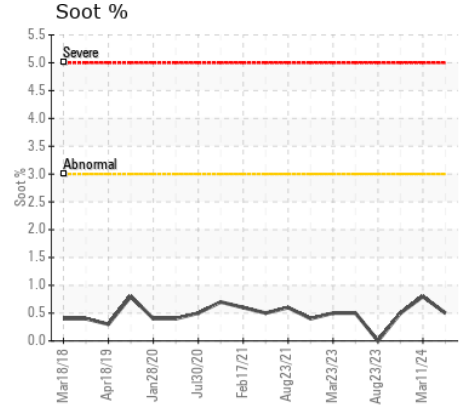
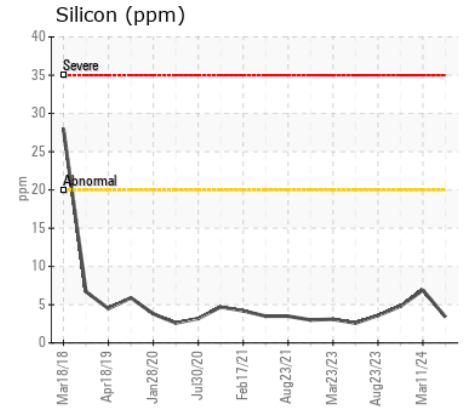
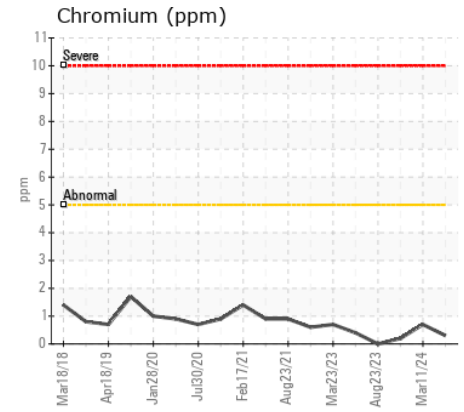
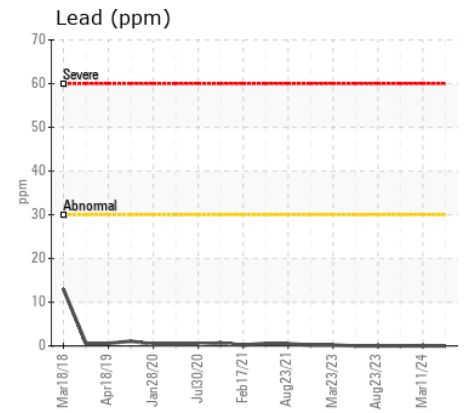
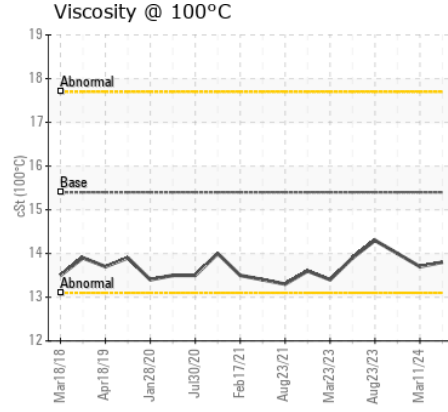
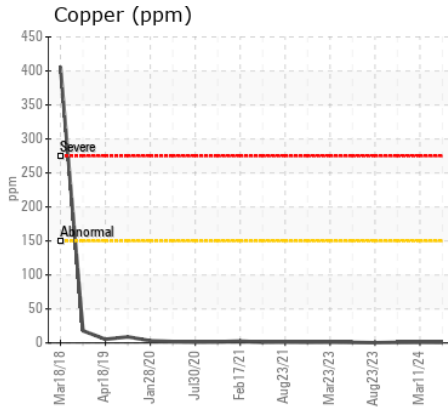
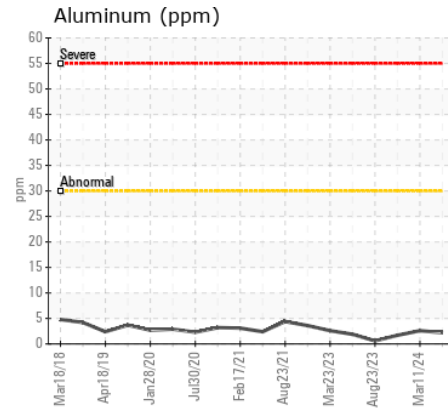
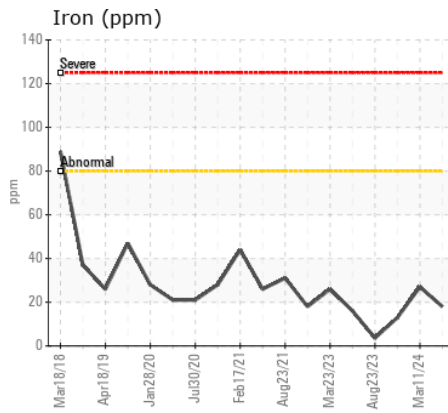
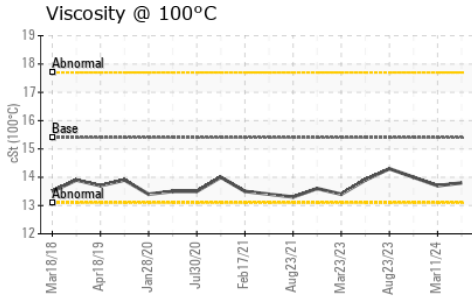
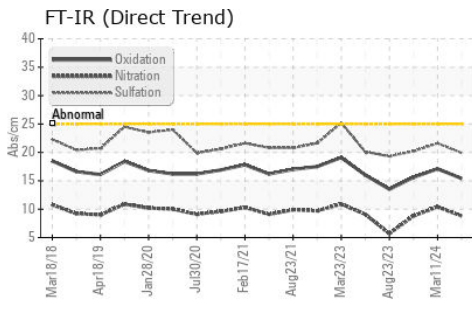
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185(m)	>20	<b>3</b>	7	5
Potassium	ppm	ASTM D5185(m)	>20	<b>2</b>	3	<1
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>0.5</b>	0.8	0.5
Nitration	Abs/cm	ASTM D7624*	>20	<b>8.8</b>	10.4	8.8
Sulfation	Abs/.1mm	ASTM D7415*	>30	<b>19.9</b>	21.6	20.2
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>	7	6
Boron	ppm	ASTM D5185(m)	0	<b>6</b>	12	22
Barium	ppm	ASTM D5185(m)	0	<b>0</b>	0	0
Molybdenum	ppm	ASTM D5185(m)	60	<b>57</b>	60	61
Manganese	ppm	ASTM D5185(m)	0	<b>&lt;1</b>	0	0
Magnesium	ppm	ASTM D5185(m)	1010	<b>908</b>	902	920
Calcium	ppm	ASTM D5185(m)	1070	<b>1028</b>	1045	1086
Phosphorus	ppm	ASTM D5185(m)	1150	<b>932</b>	962	980
Zinc	ppm	ASTM D5185(m)	1270	<b>1154</b>	1162	1212
Sulfur	ppm	ASTM D5185(m)	2060	<b>2392</b>	2516	2500
Oxidation	Abs/.1mm	ASTM D7414*	>25	<b>15.4</b>	17.1	15.6
Visc @ 100°C	cSt	ASTM D7279(m)	15.4	<b>13.8</b>	13.7	14.0



**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9  
**Sample No.** : GFL0117879  
**Lab Number** : 02634450  
**Unique Number** : 5775603  
**Test Package** : MOB 1

**GFL Environmental - 217 - Aurora**  
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 Contact: Mike Havens  
 MHavens@gflenv.com

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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