



Machine Id  
**801048**  
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>GFL0122300</b>	GFL0111741	GFL0107152
Sample Date		Client Info		<b>27 Jun 2024</b>	05 Mar 2024	14 Dec 2023
Machine Age	kms	Client Info		<b>67063</b>	13115	12590
Oil Age	kms	Client Info		<b>0</b>	0	553
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>21</b>	18	22
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>	3	2
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**

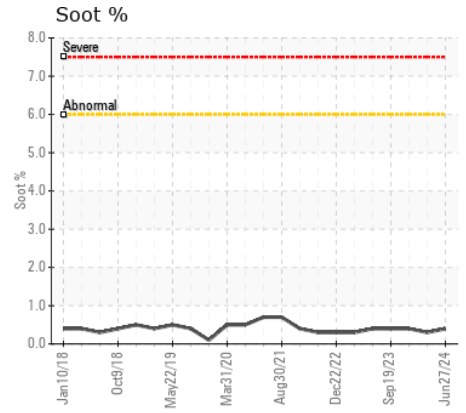
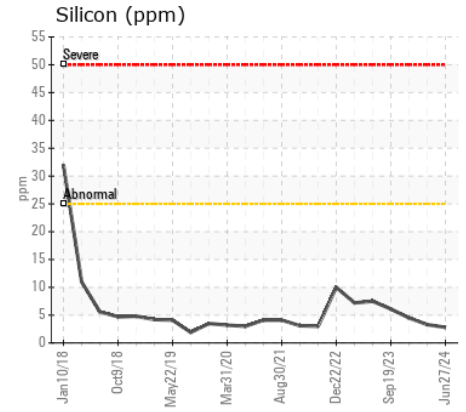
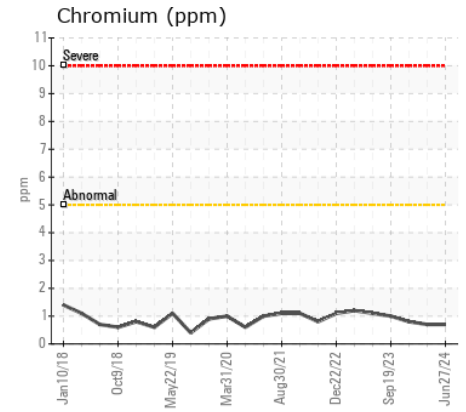
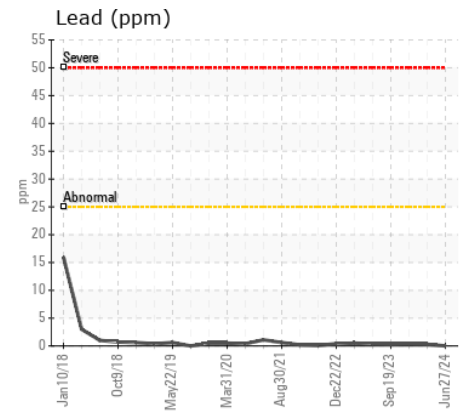
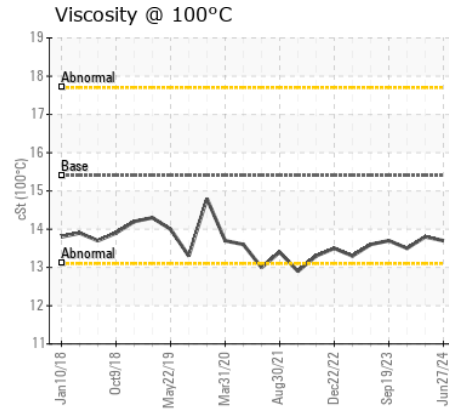
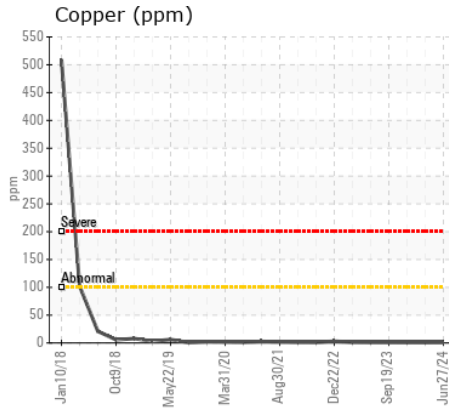
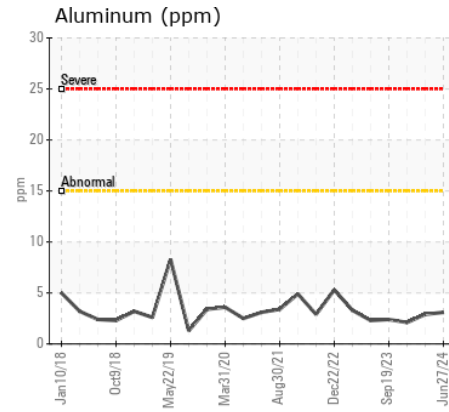
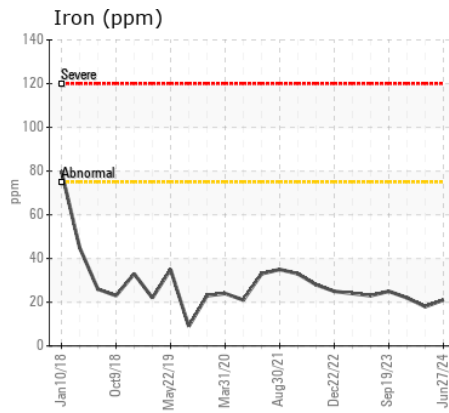
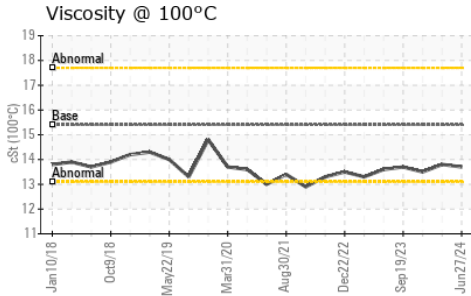
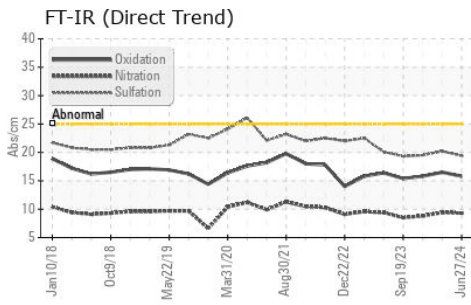
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185(m)	>25	<b>3</b>	3	4
Potassium	ppm	ASTM D5185(m)	>20	<b>1</b>	1	0
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>0.4</b>	0.3	0.4
Nitration	Abs/cm	ASTM D7624*	>20	<b>9.3</b>	9.4	8.8
Sulfation	Abs/.1mm	ASTM D7415*	>30	<b>19.4</b>	20.2	19.5
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>7</b>	6	7
Boron	ppm	ASTM D5185(m)	0	<b>5</b>	10	4
Barium	ppm	ASTM D5185(m)	0	<b>0</b>	0	<1
Molybdenum	ppm	ASTM D5185(m)	60	<b>57</b>	58	59
Manganese	ppm	ASTM D5185(m)	0	<b>&lt;1</b>	0	0
Magnesium	ppm	ASTM D5185(m)	1010	<b>914</b>	909	925
Calcium	ppm	ASTM D5185(m)	1070	<b>1028</b>	1023	1036
Phosphorus	ppm	ASTM D5185(m)	1150	<b>948</b>	980	968
Zinc	ppm	ASTM D5185(m)	1270	<b>1171</b>	1159	1164
Sulfur	ppm	ASTM D5185(m)	2060	<b>2439</b>	2585	2404
Oxidation	Abs/.1mm	ASTM D7414*	>25	<b>15.8</b>	16.5	15.8
Visc @ 100°C	cSt	ASTM D7279(m)	15.4	<b>13.7</b>	13.8	13.5



**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9  
**Sample No.** : GFL0122300  
**Lab Number** : 02645200  
**Unique Number** : 5802739  
**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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