

Machine Id  
**7754**  
Component  
**Diesel Engine**  
Fluid  
**PETRO CANADA DURON SHP 15W40 (40 LTR)**

**RECOMMENDATION**

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>GFL0126627</b>	GFL0111126	GFL0104506
Sample Date		Client Info		<b>25 Jun 2024</b>	01 Feb 2024	08 Dec 2023
Machine Age	kms	Client Info		<b>142845</b>	138071	135263
Oil Age	kms	Client Info		<b>0</b>	0	132539
Filter Age	kms	Client Info		<b>0</b>	0	0
Oil Changed		Client Info		<b>Changed</b>	Changed	N/A
Filter Changed		Client Info		<b>Changed</b>	Changed	N/A
Sample Status				<b>NORMAL</b>	NORMAL	MARGINAL

**WEAR**

All component wear rates are normal.

Iron	ppm	ASTM D5185(m)	>165	<b>5</b>	11	13
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)	>20	<b>&lt;1</b>	2	<1
Lead	ppm	ASTM D5185(m)	>150	<b>0</b>	<1	<1
Copper	ppm	ASTM D5185(m)	>90	<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**

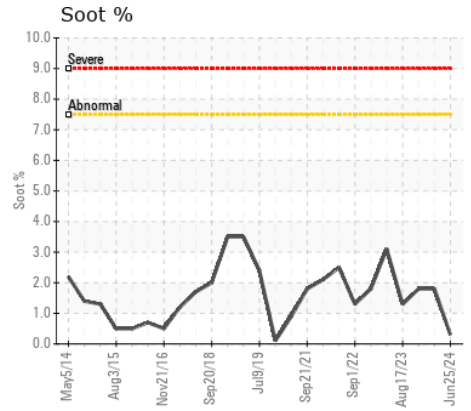
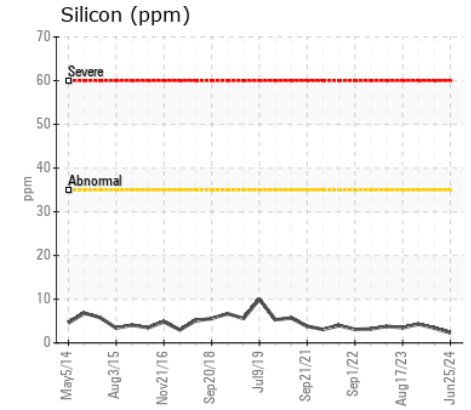
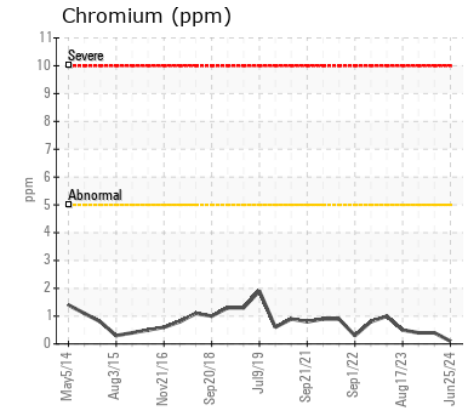
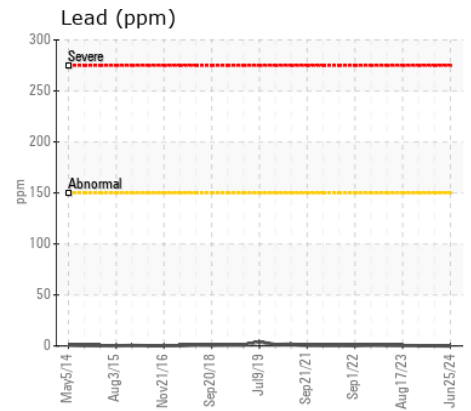
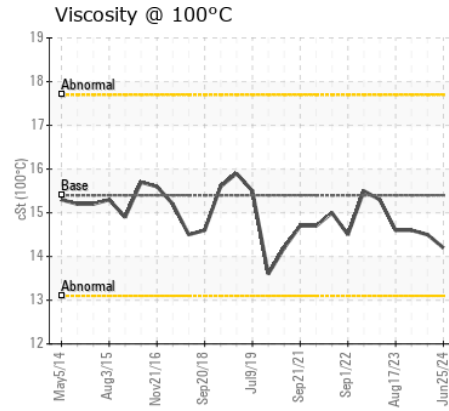
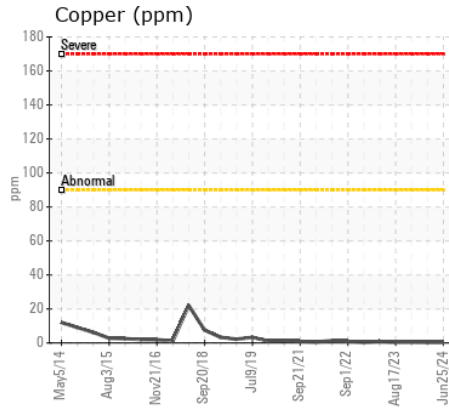
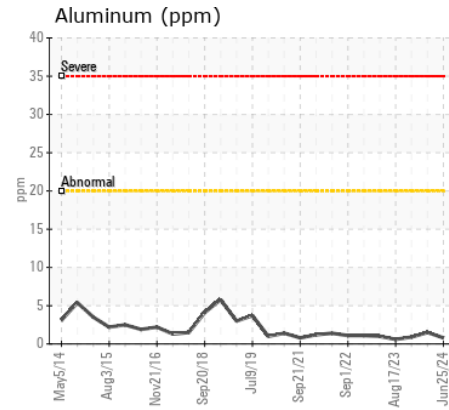
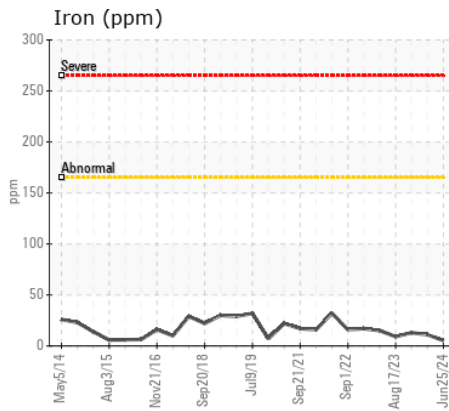
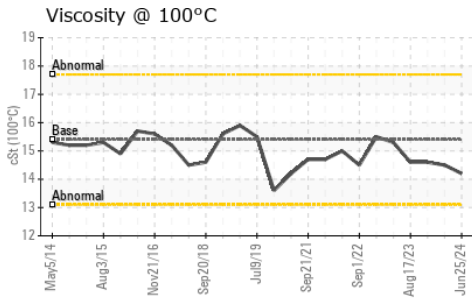
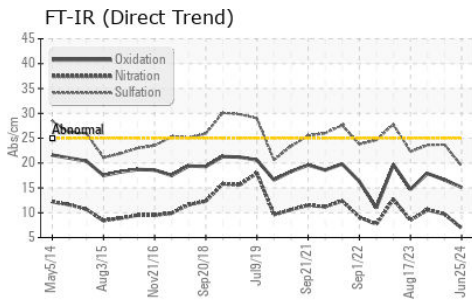
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185(m)	>35	<b>2</b>	3	4
Potassium	ppm	ASTM D5185(m)	>20	<b>&lt;1</b>	1	<1
Fuel		WC Method	>3.0	<b>&lt;1.0</b>	<1.0	▲ 1
Water		WC Method	>0.2	<b>NEG</b>	NEG	NEG
Glycol		WC Method		<b>NEG</b>	NEG	NEG
Soot %	%	ASTM D7844*	>7.5	<b>0.3</b>	1.8	1.8
Nitration	Abs/cm	ASTM D7624*	>20	<b>6.9</b>	9.7	10.6
Sulfation	Abs/.1mm	ASTM D7415*	>30	<b>19.4</b>	23.7	23.6
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>	26	16
Boron	ppm	ASTM D5185(m)	0	<b>9</b>	4	6
Barium	ppm	ASTM D5185(m)	0	<b>0</b>	0	<1
Molybdenum	ppm	ASTM D5185(m)	60	<b>55</b>	60	60
Manganese	ppm	ASTM D5185(m)	0	<b>0</b>	0	0
Magnesium	ppm	ASTM D5185(m)	1010	<b>869</b>	973	935
Calcium	ppm	ASTM D5185(m)	1070	<b>1108</b>	1090	1127
Phosphorus	ppm	ASTM D5185(m)	1150	<b>917</b>	1027	969
Zinc	ppm	ASTM D5185(m)	1270	<b>1123</b>	1198	1195
Sulfur	ppm	ASTM D5185(m)	2060	<b>2381</b>	2738	2437
Oxidation	Abs/.1mm	ASTM D7414*	>25	<b>15.1</b>	16.6	17.9
Visc @ 100°C	cSt	ASTM D7279(m)	15.4	<b>14.2</b>	14.5	14.6



**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9  
**Sample No.** : GFL0126627  
**Lab Number** : 02644549  
**Unique Number** : 5802088  
**Test Package** : MOB 1

**GFL Environmental - 225 - COT(D2)**  
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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.