



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

Machine Id  
**7810**  
 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>GFL0124650</b>	GFL0116349	GFL0107855
Sample Date		Client Info		<b>03 Jun 2024</b>	15 Mar 2024	28 Dec 2023
Machine Age	kms	Client Info		<b>197177</b>	193796	190507
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>Changed</b>	Changed	Changed
Filter Changed		Client Info		<b>Changed</b>	Changed	Changed
Sample Status				<b>NORMAL</b>	ATTENTION	NORMAL

**WEAR**

All component wear rates are normal.

Iron	ppm	ASTM D5185(m)	>165	<b>6</b>	12	5
Chromium	ppm	ASTM D5185(m)	>5	<b>0</b>	<1	<1
Nickel	ppm	ASTM D5185(m)	>4	<b>0</b>	0	<1
Titanium	ppm	ASTM D5185(m)	>2	<b>0</b>	0	0
Silver	ppm	ASTM D5185(m)	>2	<b>0</b>	0	0
Aluminum	ppm	ASTM D5185(m)	>20	<b>&lt;1</b>	1	2
Lead	ppm	ASTM D5185(m)	>150	<b>0</b>	0	<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**

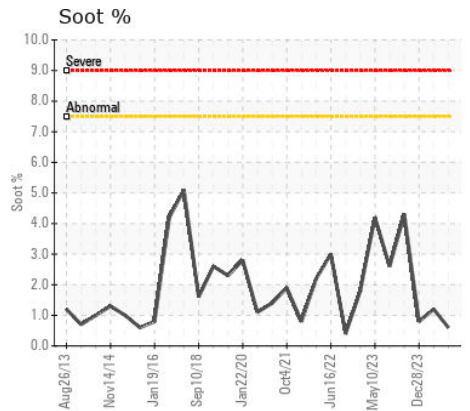
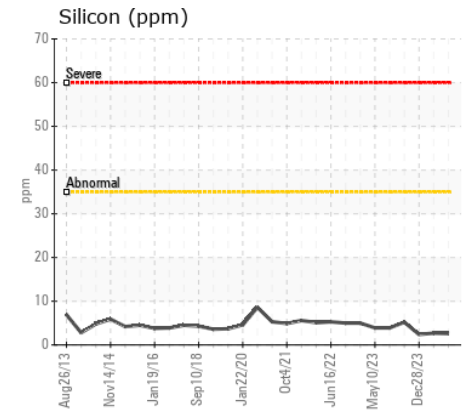
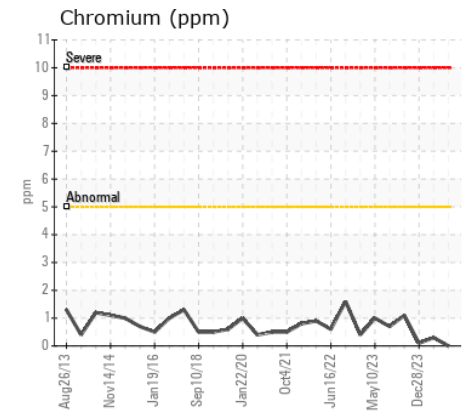
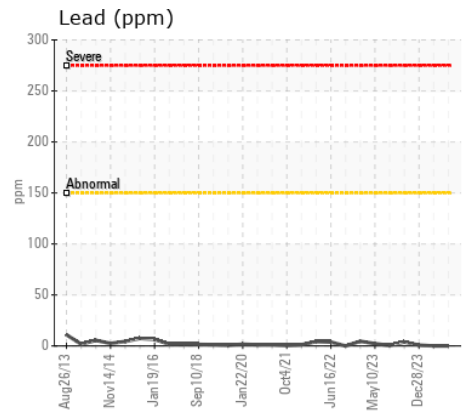
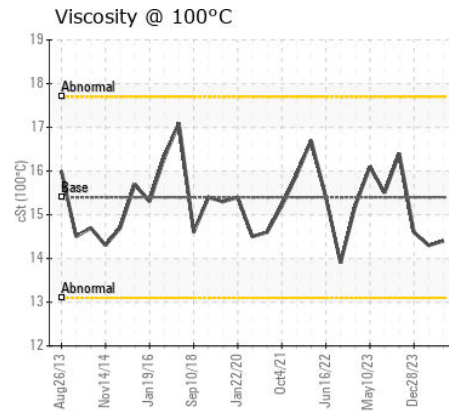
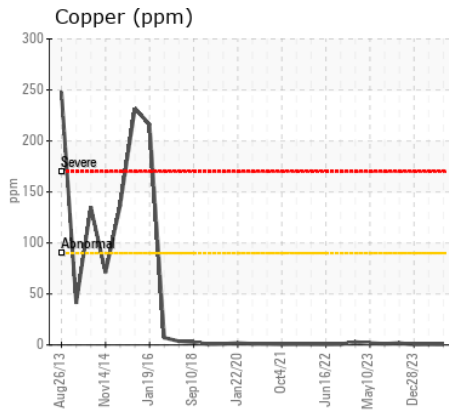
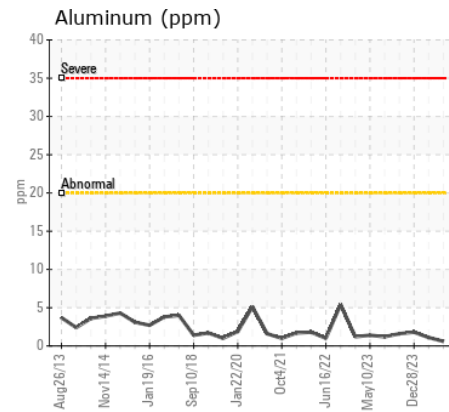
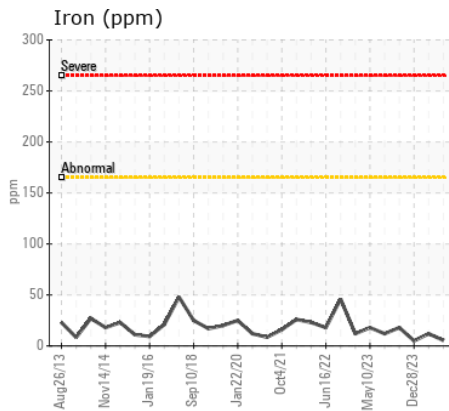
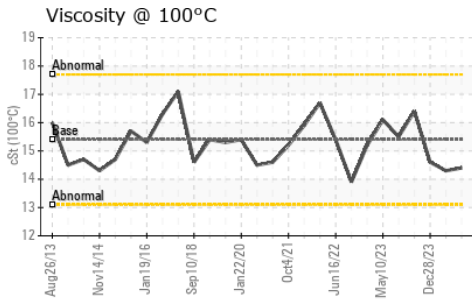
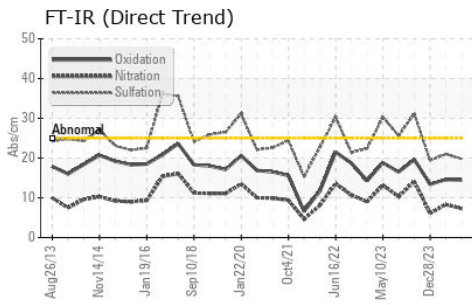
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185(m)	>35	<b>3</b>	3	2
Potassium	ppm	ASTM D5185(m)	>20	<b>&lt;1</b>	5	2
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>	0.0	NEG
Soot %	%	ASTM D7844*	>7.5	<b>0.6</b>	1.2	0.8
Nitration	Abs/cm	ASTM D7624*	>20	<b>7.3</b>	8.3	6.1
Sulfation	Abs/.1mm	ASTM D7415*	>30	<b>19.8</b>	21.0	19.4
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>37</b>	182	40
Boron	ppm	ASTM D5185(m)	0	<b>3</b>	3	6
Barium	ppm	ASTM D5185(m)	0	<b>0</b>	0	0
Molybdenum	ppm	ASTM D5185(m)	60	<b>60</b>	61	57
Manganese	ppm	ASTM D5185(m)	0	<b>0</b>	0	0
Magnesium	ppm	ASTM D5185(m)	1010	<b>977</b>	982	933
Calcium	ppm	ASTM D5185(m)	1070	<b>1069</b>	1065	1031
Phosphorus	ppm	ASTM D5185(m)	1150	<b>1019</b>	999	987
Zinc	ppm	ASTM D5185(m)	1270	<b>1210</b>	1196	1150
Sulfur	ppm	ASTM D5185(m)	2060	<b>2622</b>	2540	2748
Oxidation	Abs/.1mm	ASTM D7414*	>25	<b>14.5</b>	14.6	13.4
Visc @ 100°C	cSt	ASTM D7279(m)	15.4	<b>14.4</b>	14.3	14.6



**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9  
**Sample No.** : GFL0124650  
**Lab Number** : 02640084  
**Unique Number** : 5789246  
**Test Package** : MOB 1

**GFL Environmental - 225 - COT(D2)**  
 20 Brydon Drive  
 Etobicoke, ON  
 CA M9W 5R6  
 Contact: Rick Philip  
 rphilip@gflenv.com  
 T: (416)745-8080  
 F:

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.