



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

Machine Id  
**7775**  
 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>GFL0118289</b>	GFL011124	GFL0099456
Sample Date		Client Info		<b>08 Apr 2024</b>	31 Jan 2024	25 Oct 2023
Machine Age	kms	Client Info		<b>196554</b>	194447	191115
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>	NORMAL	NORMAL

**WEAR**

All component wear rates are normal.

Iron	ppm	ASTM D5185(m)	>165	<b>5</b>	11	8
Chromium	ppm	ASTM D5185(m)	>5	<b>0</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>1</b>	1	<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**

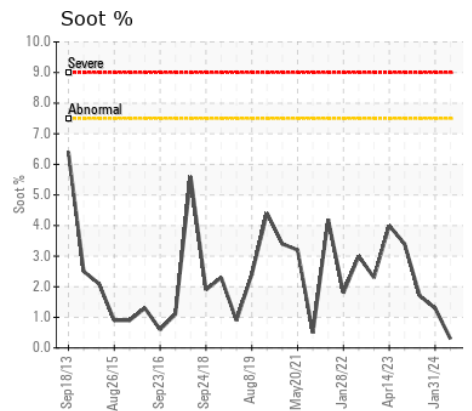
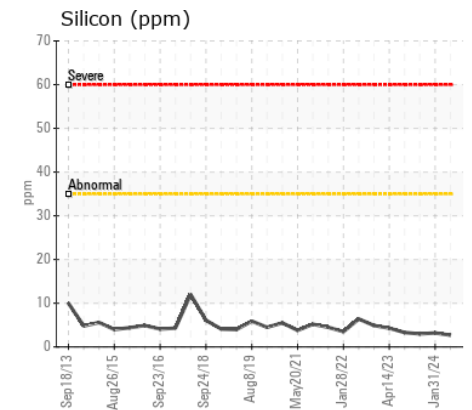
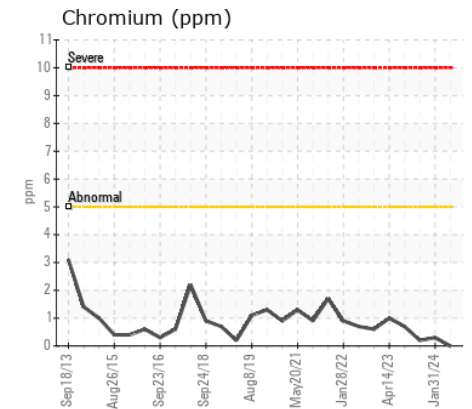
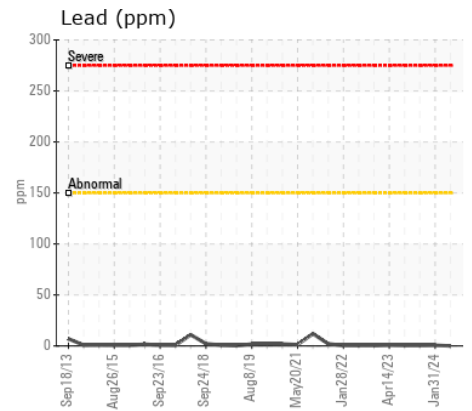
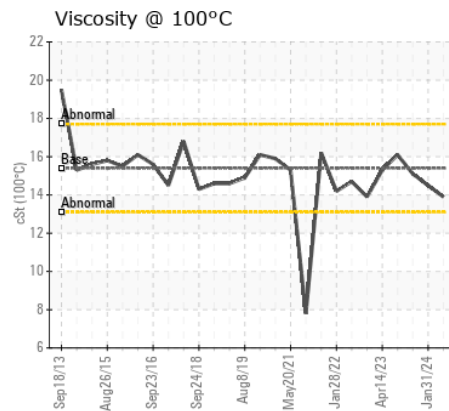
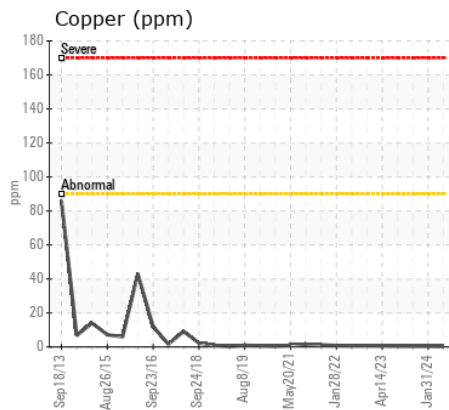
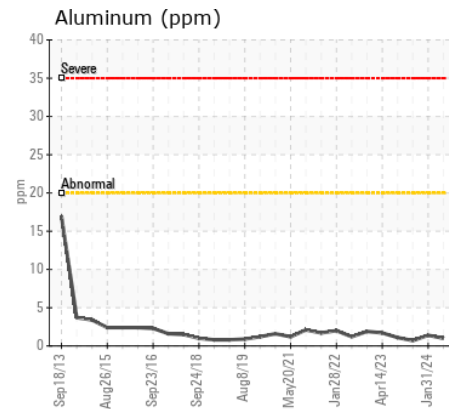
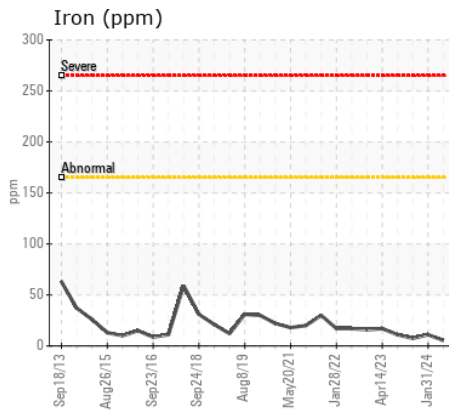
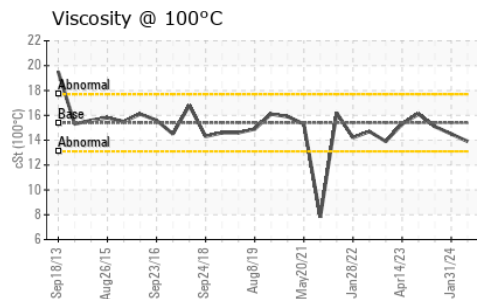
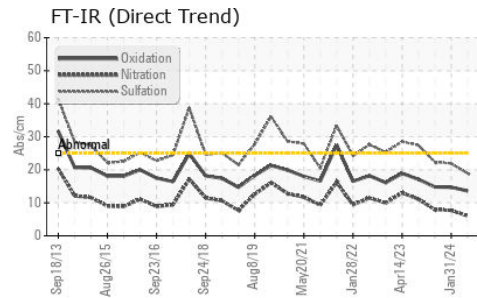
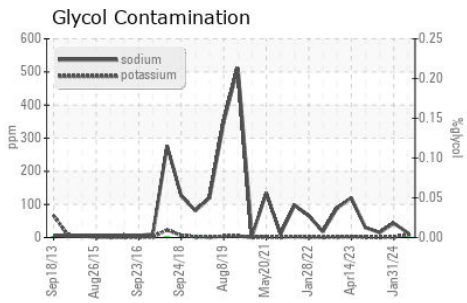
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185(m)	>35	<b>3</b>	3	3
Potassium	ppm	ASTM D5185(m)	>20	<b>9</b>	2	<1
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	%	ASTM D7922*		<b>0.0</b>	NEG	NEG
Soot %	%	ASTM D7844*	>7.5	<b>0.3</b>	1.3	1.7
Nitration	Abs/cm	ASTM D7624*	>20	<b>6.0</b>	7.7	7.9
Sulfation	Abs/.1mm	ASTM D7415*	>30	<b>18.9</b>	21.9	22.3
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>14</b>	43	15
Boron	ppm	ASTM D5185(m)	0	<b>4</b>	4	2
Barium	ppm	ASTM D5185(m)	0	<b>0</b>	0	<1
Molybdenum	ppm	ASTM D5185(m)	60	<b>60</b>	60	59
Manganese	ppm	ASTM D5185(m)	0	<b>0</b>	0	0
Magnesium	ppm	ASTM D5185(m)	1010	<b>975</b>	961	944
Calcium	ppm	ASTM D5185(m)	1070	<b>1043</b>	1064	1051
Phosphorus	ppm	ASTM D5185(m)	1150	<b>995</b>	1014	969
Zinc	ppm	ASTM D5185(m)	1270	<b>1163</b>	1179	1167
Sulfur	ppm	ASTM D5185(m)	2060	<b>2556</b>	2715	2463
Oxidation	Abs/.1mm	ASTM D7414*	>25	<b>13.6</b>	14.7	14.8
Visc @ 100°C	cSt	ASTM D7279(m)	15.4	<b>13.9</b>	14.5	15.1



ISO 17025:2017  
Accredited  
Laboratory

**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9  
**Sample No.** : GFL0118289  
**Lab Number** : 02628760  
**Unique Number** : 5761892  
**Test Package** : MOB 1 ( Additional Tests: Glycol )

**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.