



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

Machine Id  
**7807**  
 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>GFL0113168</b>	GFL0104514	GFL0090561
Sample Date		Client Info		<b>29 Feb 2024</b>	12 Dec 2023	16 Aug 2023
Machine Age	kms	Client Info		<b>159127</b>	156301	152048
Oil Age	kms	Client Info		<b>0</b>	1092505	0
Filter Age	kms	Client Info		<b>0</b>	0	0
Oil Changed		Client Info		<b>Changed</b>	N/A	Changed
Filter Changed		Client Info		<b>Changed</b>	N/A	Changed
Sample Status				<b>NORMAL</b>	NORMAL	NORMAL

**WEAR**

All component wear rates are normal.

Iron	ppm	ASTM D5185(m)	>165	<b>13</b>	10	10
Chromium	ppm	ASTM D5185(m)	>5	<b>&lt;1</b>	<1	<1
Nickel	ppm	ASTM D5185(m)	>4	<b>&lt;1</b>	<1	0
Titanium	ppm	ASTM D5185(m)	>2	<b>0</b>	0	0
Silver	ppm	ASTM D5185(m)	>2	<b>0</b>	<1	0
Aluminum	ppm	ASTM D5185(m)	>20	<b>2</b>	1	2
Lead	ppm	ASTM D5185(m)	>150	<b>1</b>	<1	<1
Copper	ppm	ASTM D5185(m)	>90	<b>2</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**

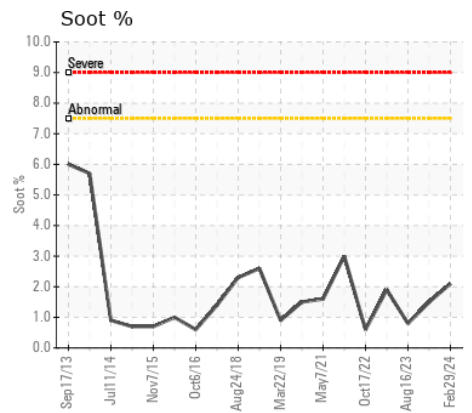
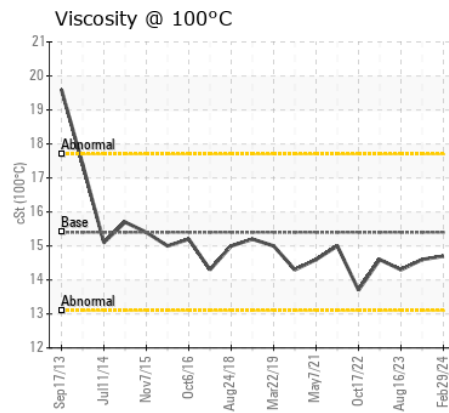
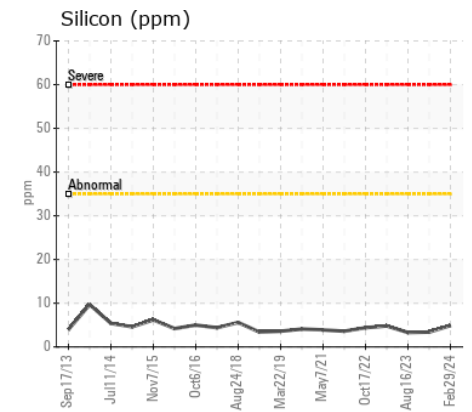
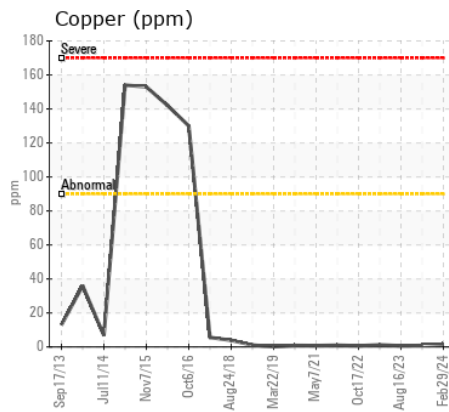
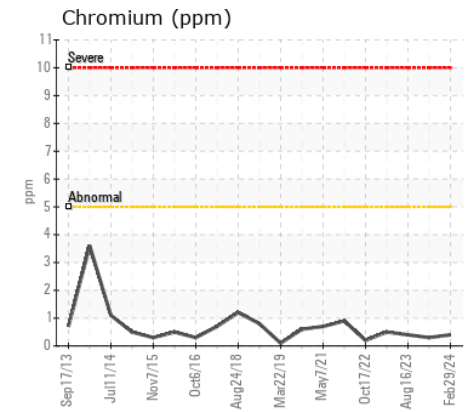
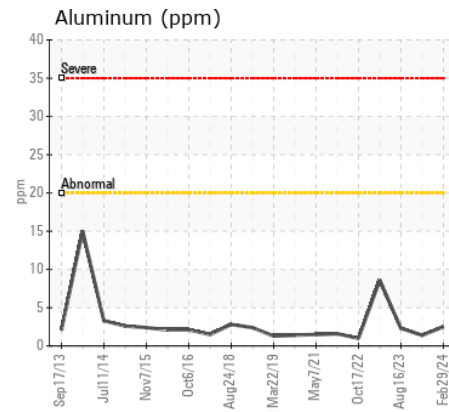
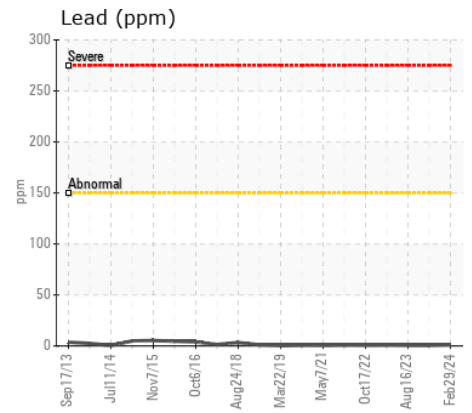
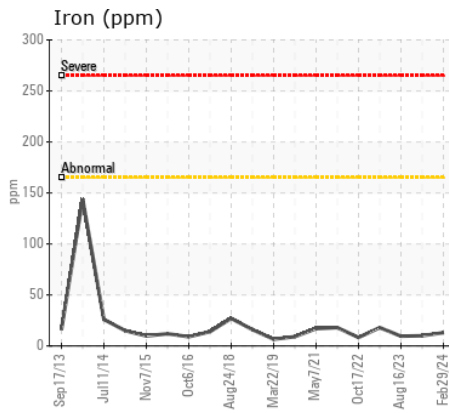
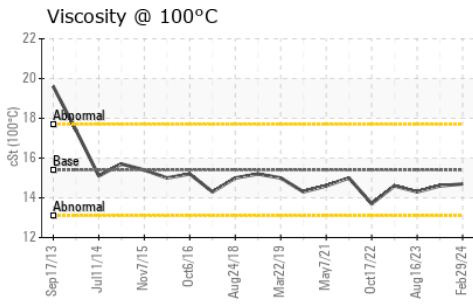
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185(m)	>35	<b>5</b>	3	3
Potassium	ppm	ASTM D5185(m)	>20	<b>2</b>	0	<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		WC Method		<b>NEG</b>	NEG	NEG
Soot %	%	ASTM D7844*	>7.5	<b>2.1</b>	1.5	0.8
Nitration	Abs/cm	ASTM D7624*	>20	<b>10.6</b>	9.0	7.7
Sulfation	Abs/.1mm	ASTM D7415*	>30	<b>24.2</b>	22.7	21.8
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>38</b>	14	4
Boron	ppm	ASTM D5185(m)	0	<b>4</b>	2	2
Barium	ppm	ASTM D5185(m)	0	<b>0</b>	<1	0
Molybdenum	ppm	ASTM D5185(m)	60	<b>60</b>	62	61
Manganese	ppm	ASTM D5185(m)	0	<b>0</b>	0	<1
Magnesium	ppm	ASTM D5185(m)	1010	<b>946</b>	987	996
Calcium	ppm	ASTM D5185(m)	1070	<b>1069</b>	1078	1092
Phosphorus	ppm	ASTM D5185(m)	1150	<b>1014</b>	1005	1097
Zinc	ppm	ASTM D5185(m)	1270	<b>1181</b>	1235	1216
Sulfur	ppm	ASTM D5185(m)	2060	<b>2647</b>	2556	2608
Oxidation	Abs/.1mm	ASTM D7414*	>25	<b>17.1</b>	16.0	15.0
Visc @ 100°C	cSt	ASTM D7279(m)	15.4	<b>14.7</b>	14.6	14.3



ISO 17025:2017  
Accredited  
Laboratory

**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9  
**Sample No.** : GFL0113168  
**Lab Number** : 02619465  
**Unique Number** : 5736575  
**Test Package** : MOB 1

**Received** : 04 Mar 2024  
**Tested** : 04 Mar 2024  
**Diagnosed** : 04 Mar 2024 - Wes Davis

**GFL Environmental - 225 - COT(D2)**  
 20 Brydon Drive  
 Etobicoke, ON  
 CA M9W 5R6  
 Contact: Rick Philip  
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 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.