



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

Machine Id  
**518007**  
 Component  
**Diesel Engine**  
 Fluid  
**PETRO CANADA DURON SHP 15W40 (--- GAL)**

**RECOMMENDATION**

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>GFL0118498</b>	GFL0102716	GFL0082974
Sample Date		Client Info		<b>25 Apr 2024</b>	12 Jan 2024	01 Aug 2023
Machine Age	hrs	Client Info		<b>10174</b>	9690	9125
Oil Age	hrs	Client Info		<b>0</b>	0	0
Filter Age	hrs	Client Info		<b>0</b>	0	0
Oil Changed		Client Info		<b>Changed</b>	N/A	Changed
Filter Changed		Client Info		<b>N/A</b>	N/A	Changed
Sample Status				<b>NORMAL</b>	NORMAL	NORMAL

**WEAR**

All component wear rates are normal.

Iron	ppm	ASTM D5185(m)	>120	<b>9</b>	18	26
Chromium	ppm	ASTM D5185(m)	>20	<b>0</b>	<1	<1
Nickel	ppm	ASTM D5185(m)	>15	<b>&lt;1</b>	<1	0
Titanium	ppm	ASTM D5185(m)	>2	<b>&lt;1</b>	8	85
Silver	ppm	ASTM D5185(m)	>3	<b>0</b>	<1	<1
Aluminum	ppm	ASTM D5185(m)	>20	<b>2</b>	5	5
Lead	ppm	ASTM D5185(m)	>40	<b>0</b>	<1	<1
Copper	ppm	ASTM D5185(m)	>330	<b>2</b>	6	6
Tin	ppm	ASTM D5185(m)	>15	<b>0</b>	<1	<1
Vanadium	ppm	ASTM D5185(m)		<b>0</b>	0	<1

**CONTAMINATION**

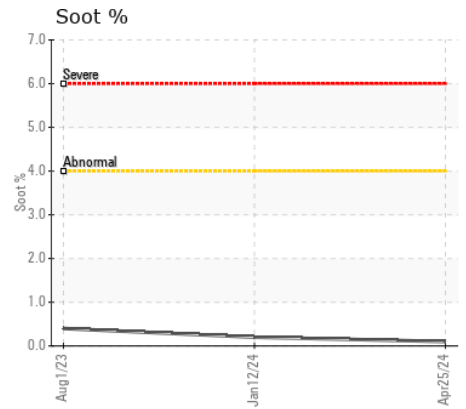
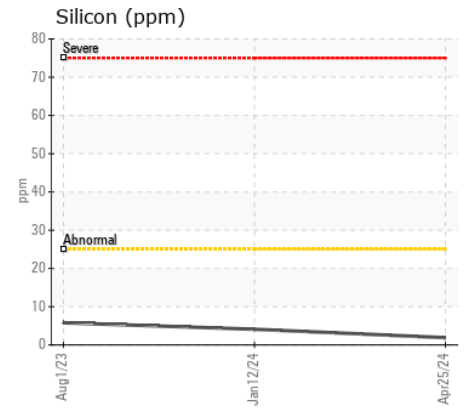
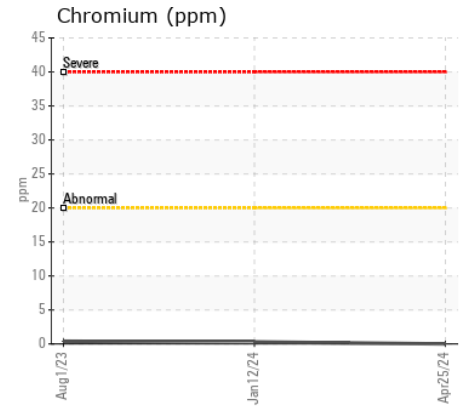
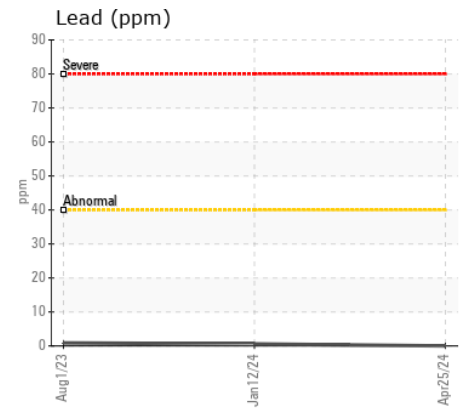
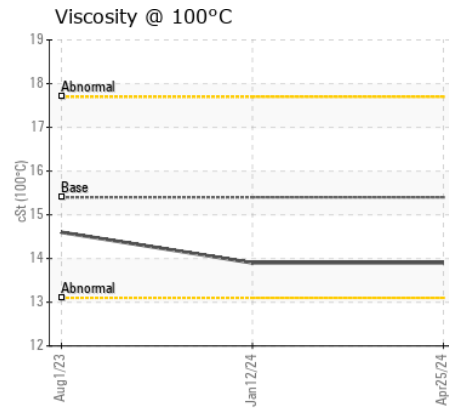
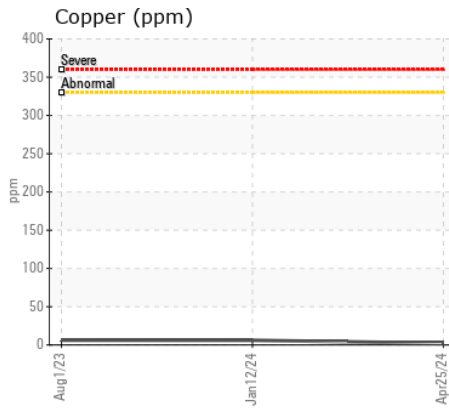
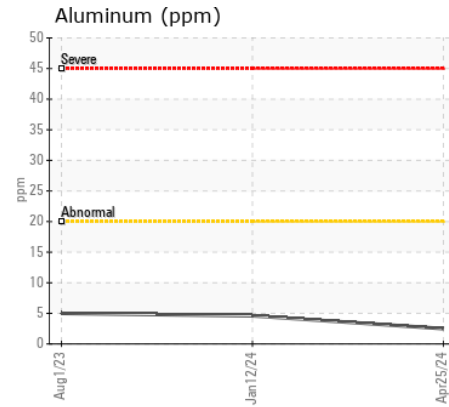
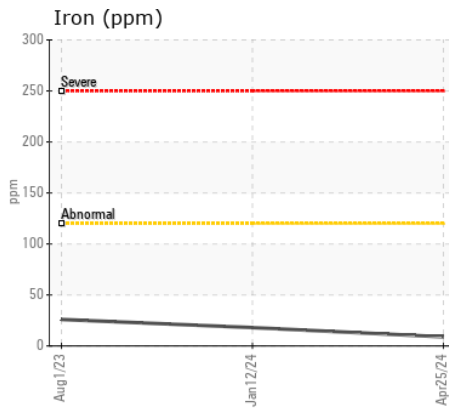
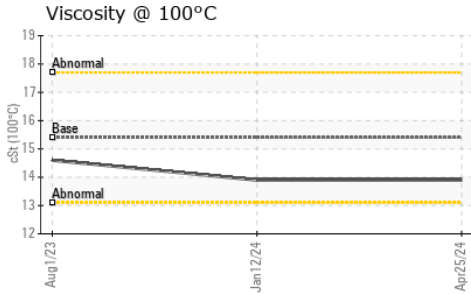
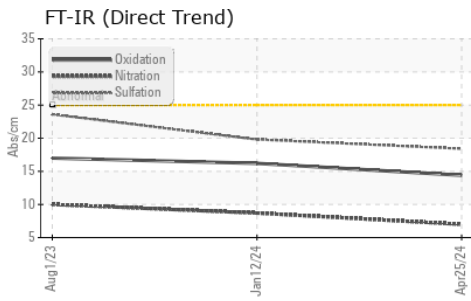
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185(m)	>25	<b>2</b>	4	6
Potassium	ppm	ASTM D5185(m)	>20	<b>1</b>	3	7
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*	>4	<b>0.1</b>	0.2	0.4
Nitration	Abs/cm	ASTM D7624*	>20	<b>7.0</b>	8.7	10.0
Sulfation	Abs/.1mm	ASTM D7415*	>30	<b>18.4</b>	19.8	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>2</b>	4	6
Boron	ppm	ASTM D5185(m)	0	<b>3</b>	4	55
Barium	ppm	ASTM D5185(m)	0	<b>0</b>	0	0
Molybdenum	ppm	ASTM D5185(m)	60	<b>58</b>	52	4
Manganese	ppm	ASTM D5185(m)	0	<b>0</b>	0	<1
Magnesium	ppm	ASTM D5185(m)	1010	<b>960</b>	870	386
Calcium	ppm	ASTM D5185(m)	1070	<b>1054</b>	1108	1733
Phosphorus	ppm	ASTM D5185(m)	1150	<b>1003</b>	979	1029
Zinc	ppm	ASTM D5185(m)	1270	<b>1173</b>	1131	1138
Sulfur	ppm	ASTM D5185(m)	2060	<b>2560</b>	2681	3067
Oxidation	Abs/.1mm	ASTM D7414*	>25	<b>14.4</b>	16.2	17.0
Visc @ 100°C	cSt	ASTM D7279(m)	15.4	<b>13.9</b>	13.9	14.6



**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9  
**Sample No.** : GFL0118498  
**Lab Number** : 02631834  
**Unique Number** : 5772987  
**Test Package** : MOB 1

**GFL Environmental - 207 - Pickering SW**  
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 PICKERING, ON  
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 F: (905)426-3577

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.