



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

Machine Id  
**9111**  
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>GFL0100333</b>	GFL0100324	GFL0064985
Sample Date		Client Info		<b>26 Jun 2024</b>	05 Feb 2024	05 Jan 2024
Machine Age	hrs	Client Info		<b>3017</b>	475557	475557
Oil Age	hrs	Client Info		<b>600</b>	475557	528
Filter Age	hrs	Client Info		<b>600</b>	475557	528
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>	ATTENTION	ATTENTION

**WEAR**

All component wear rates are normal.

Iron	ppm	ASTM D5185(m)	>110	<b>39</b>	20	30
Chromium	ppm	ASTM D5185(m)	>4	<b>2</b>	<1	1
Nickel	ppm	ASTM D5185(m)	>2	<b>&lt;1</b>	<1	<1
Titanium	ppm	ASTM D5185(m)		<b>0</b>	0	0
Silver	ppm	ASTM D5185(m)	>2	<b>&lt;1</b>	<1	<1
Aluminum	ppm	ASTM D5185(m)	>25	<b>6</b>	7	4
Lead	ppm	ASTM D5185(m)	>45	<b>12</b>	2	6
Copper	ppm	ASTM D5185(m)	>85	<b>301</b>	6	20
Tin	ppm	ASTM D5185(m)	>4	<b>&lt;1</b>	<1	<1
Vanadium	ppm	ASTM D5185(m)		<b>0</b>	0	0

**CONTAMINATION**

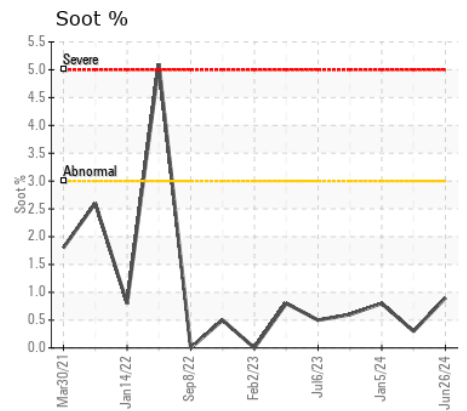
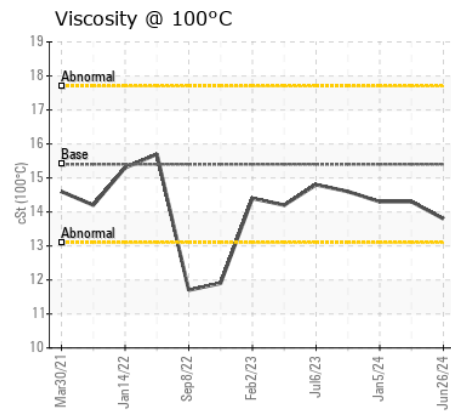
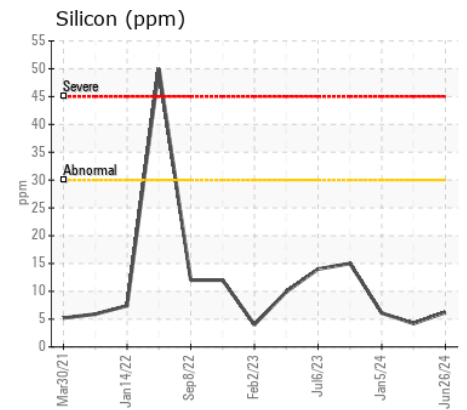
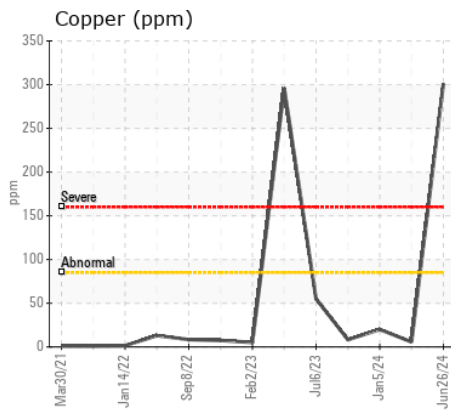
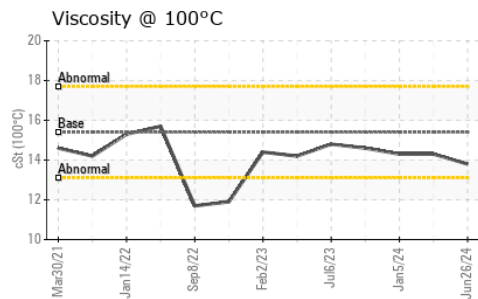
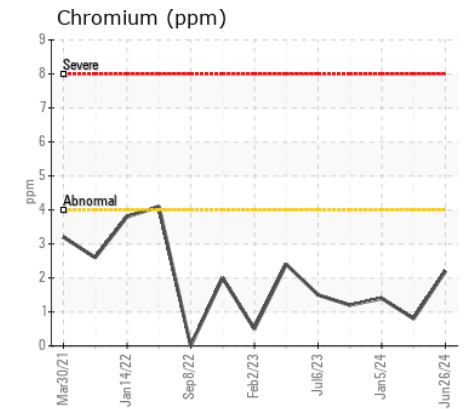
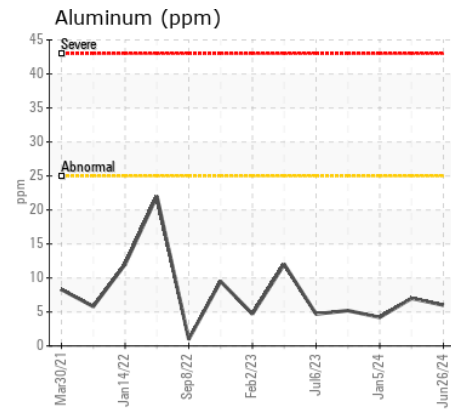
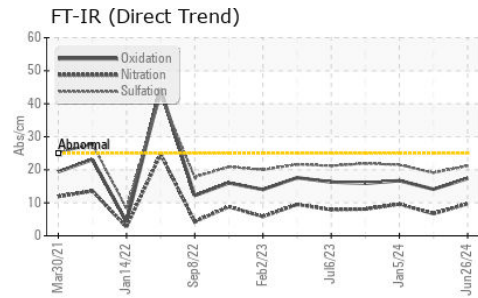
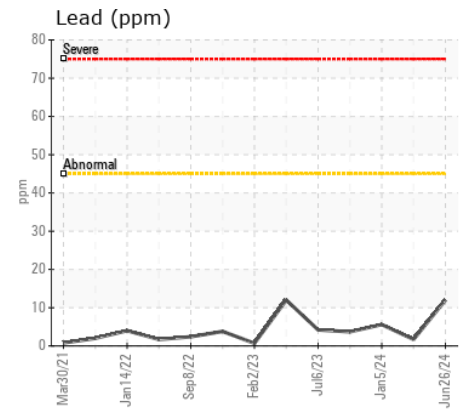
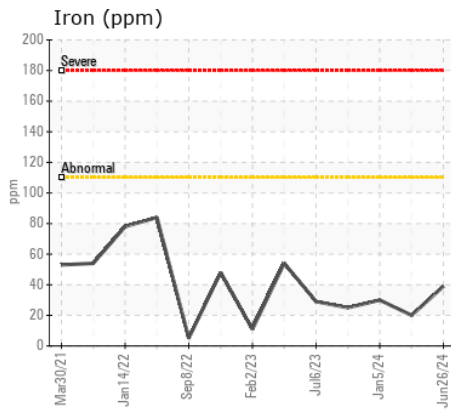
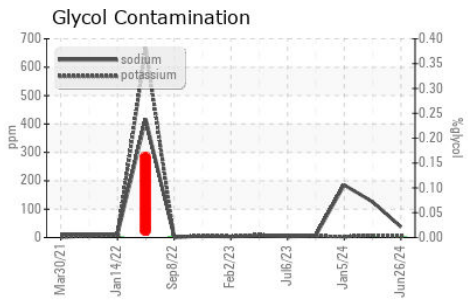
Test for glycol is negative. There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185(m)	>30	<b>6</b>	4	6
Potassium	ppm	ASTM D5185(m)	>20	<b>5</b>	8	3
Fuel		WC Method	>5	<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>	0.0	0.0
Soot %	%	ASTM D7844*	>3	<b>0.9</b>	0.3	0.8
Nitration	Abs/cm	ASTM D7624*	>20	<b>9.7</b>	6.7	9.6
Sulfation	Abs/.1mm	ASTM D7415*	>30	<b>21.2</b>	19.1	21.5
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>	● 126	● 185
Boron	ppm	ASTM D5185(m)	0	<b>2</b>	1	1
Barium	ppm	ASTM D5185(m)	0	<b>0</b>	0	0
Molybdenum	ppm	ASTM D5185(m)	60	<b>58</b>	62	67
Manganese	ppm	ASTM D5185(m)	0	<b>&lt;1</b>	0	0
Magnesium	ppm	ASTM D5185(m)	1010	<b>911</b>	936	965
Calcium	ppm	ASTM D5185(m)	1070	<b>1063</b>	1042	1052
Phosphorus	ppm	ASTM D5185(m)	1150	<b>946</b>	1005	1010
Zinc	ppm	ASTM D5185(m)	1270	<b>1154</b>	1158	1188
Sulfur	ppm	ASTM D5185(m)	2060	<b>2239</b>	2701	2575
Oxidation	Abs/.1mm	ASTM D7414*	>25	<b>17.4</b>	14.1	16.7
Visc @ 100°C	cSt	ASTM D7279(m)	15.4	<b>13.8</b>	14.3	14.3



**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9  
**Sample No.** : GFL0100333 **Received** : 27 Jun 2024  
**Lab Number** : 02644289 **Tested** : 27 Jun 2024  
**Unique Number** : 5801828 **Diagnosed** : 27 Jun 2024 - Wes Davis  
**Test Package** : MOB 1 ( Additional Tests: Glycol )

**GFL Environmental - 556 - Whitecourt**  
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 Whitecourt, AB  
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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.