



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

Machine Id  
**201039**

Component  
**Diesel Engine**

Fluid  
**PETRO CANADA DURON XL SYN BLEND 15W40 (--- GAL)**

**RECOMMENDATION**

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>GFL0112390</b>	GFL009588	GFL0091604
Sample Date		Client Info		<b>27 Feb 2024</b>	06 Dec 2023	11 Sep 2023
Machine Age	hrs	Client Info		<b>12179</b>	431911	0
Oil Age	hrs	Client Info		<b>206</b>	0	0
Filter Age	hrs	Client Info		<b>206</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)	>100	<b>10</b>	8	9
Chromium	ppm	ASTM D5185(m)	>20	<b>&lt;1</b>	0	<1
Nickel	ppm	ASTM D5185(m)	>4	<b>&lt;1</b>	0	0
Titanium	ppm	ASTM D5185(m)		<b>0</b>	0	0
Silver	ppm	ASTM D5185(m)	>3	<b>0</b>	<1	<1
Aluminum	ppm	ASTM D5185(m)	>20	<b>2</b>	2	3
Lead	ppm	ASTM D5185(m)	>40	<b>3</b>	5	9
Copper	ppm	ASTM D5185(m)	>330	<b>&lt;1</b>	<1	1
Tin	ppm	ASTM D5185(m)	>15	<b>&lt;1</b>	0	<1
Vanadium	ppm	ASTM D5185(m)		<b>0</b>	0	0

**CONTAMINATION**

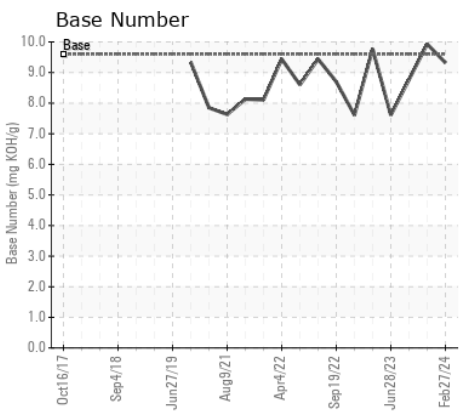
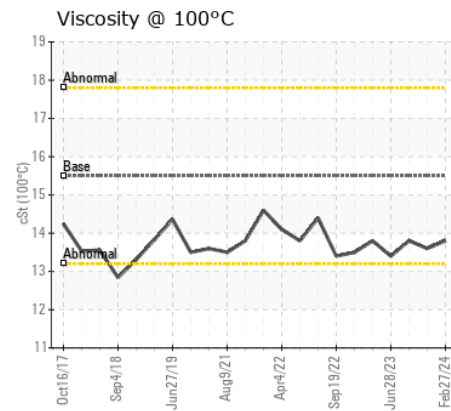
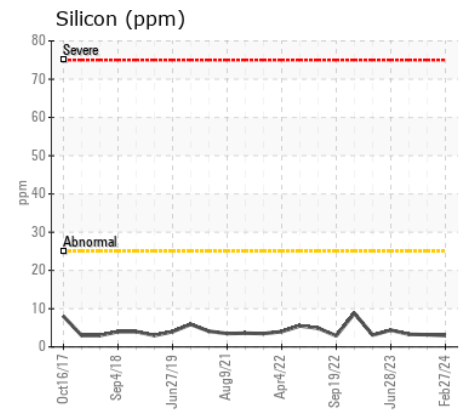
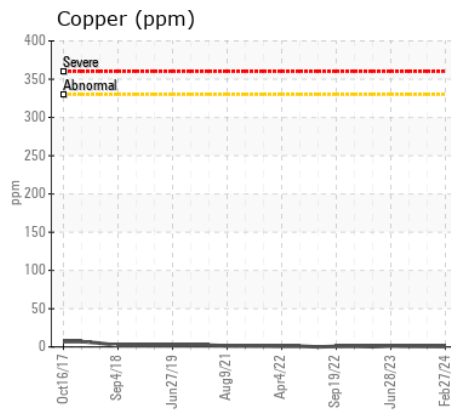
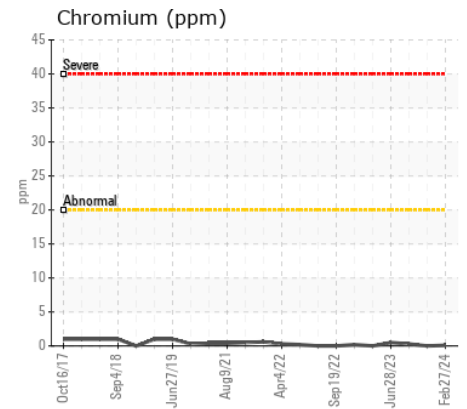
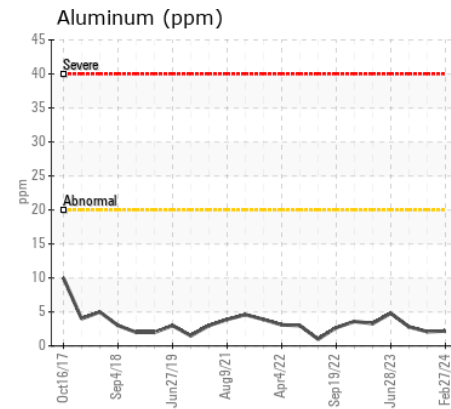
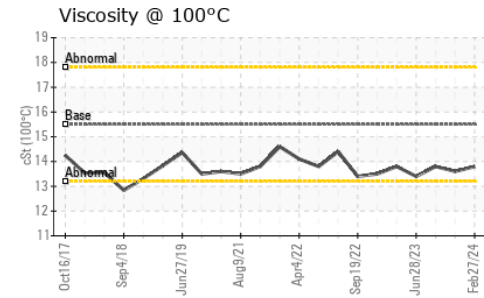
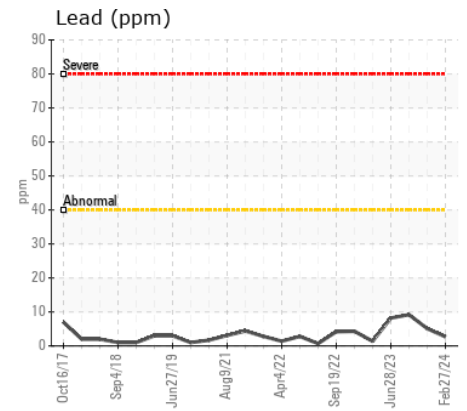
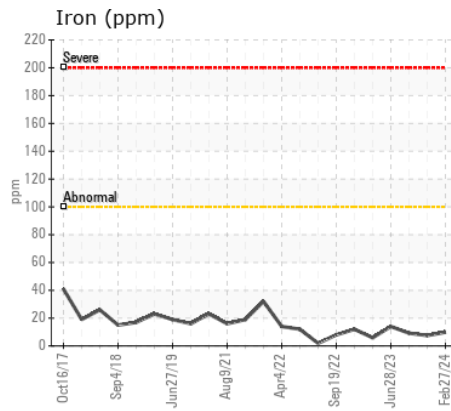
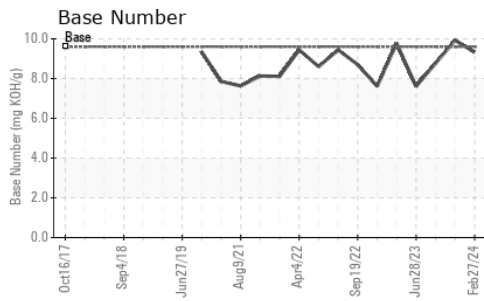
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185(m)	>25	<b>3</b>	3	3
Potassium	ppm	ASTM D5185(m)	>20	<b>2</b>	<1	2
Fuel		WC Method	>5	<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*	>3	<b>1.2</b>	1.1	1.4
Nitration	Abs/cm	ASTM D7624*	>20	<b>12.7</b>	12.3	11.1
Sulfation	Abs/.1mm	ASTM D7415*	>30	<b>21.4</b>	22.0	23.5
Emulsified Water	scalar	Visual*	>0.2	<b>NEG</b>	NEG	NEG

**FLUID CONDITION**

The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

Sodium	ppm	ASTM D5185(m)		<b>2</b>	2	2
Boron	ppm	ASTM D5185(m)	1	<b>2</b>	2	2
Barium	ppm	ASTM D5185(m)	1	<b>0</b>	<1	0
Molybdenum	ppm	ASTM D5185(m)	60	<b>57</b>	59	58
Manganese	ppm	ASTM D5185(m)	1	<b>0</b>	0	<1
Magnesium	ppm	ASTM D5185(m)	1010	<b>922</b>	954	962
Calcium	ppm	ASTM D5185(m)	1070	<b>1051</b>	1050	1040
Phosphorus	ppm	ASTM D5185(m)	1150	<b>999</b>	1002	1067
Zinc	ppm	ASTM D5185(m)	1270	<b>1163</b>	1204	1182
Sulfur	ppm	ASTM D5185(m)	2060	<b>2607</b>	2513	2477
Oxidation	Abs/.1mm	ASTM D7414*	>25	<b>20.6</b>	21.4	20.9
Base Number (BN)	mg KOH/g	ASTM D2896*	9.6	<b>9.32</b>	9.93	8.77
Visc @ 100°C	cSt	ASTM D7279(m)	15.5	<b>13.8</b>	13.6	13.8



**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9  
**Sample No.** : GFL0112390  
**Lab Number** : 02619527  
**Unique Number** : 5736637  
**Test Package** : MOB 2  
**Received** : 04 Mar 2024  
**Tested** : 05 Mar 2024  
**Diagnosed** : 05 Mar 2024 - Kevin Marson

**GFL Environmental - 550 - Rocky View County**  
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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.