

Machine Id  
**0548**  
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>GFL0112424</b>	GFL0099579	GFL0084333
Sample Date		Client Info		<b>20 Feb 2024</b>	28 Nov 2023	14 Aug 2023
Machine Age	hrs	Client Info		<b>17025</b>	463306	447984
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>	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)	>90	<b>30</b>	25	31
Chromium	ppm	ASTM D5185(m)	>20	<b>2</b>	2	9
Nickel	ppm	ASTM D5185(m)	>2	<b>&lt;1</b>	<1	<1
Titanium	ppm	ASTM D5185(m)	>2	<b>0</b>	0	0
Silver	ppm	ASTM D5185(m)	>2	<b>0</b>	0	0
Aluminum	ppm	ASTM D5185(m)	>20	<b>3</b>	2	2
Lead	ppm	ASTM D5185(m)	>40	<b>0</b>	0	0
Copper	ppm	ASTM D5185(m)	>330	<b>1</b>	<1	<1
Tin	ppm	ASTM D5185(m)	>15	<b>0</b>	0	0
Vanadium	ppm	ASTM D5185(m)		<b>0</b>	0	0

**CONTAMINATION**

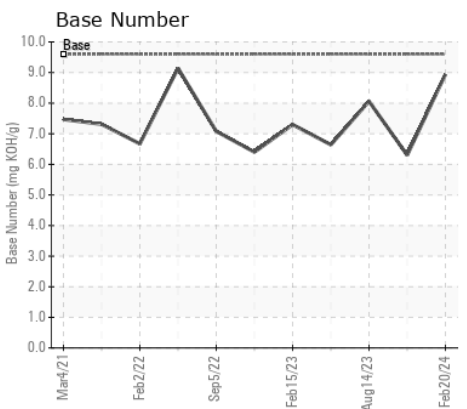
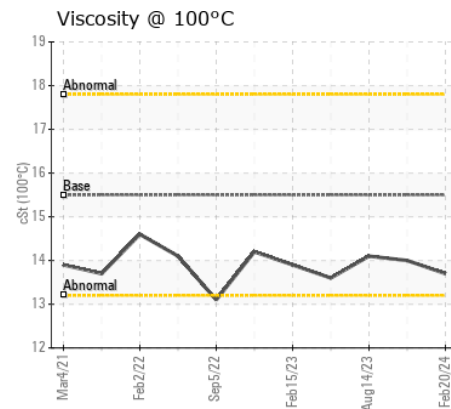
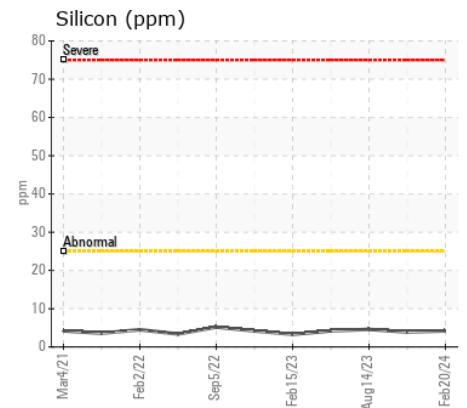
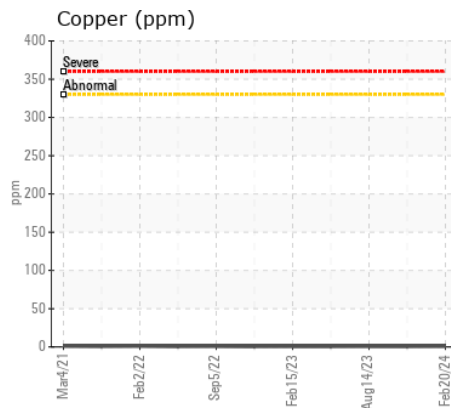
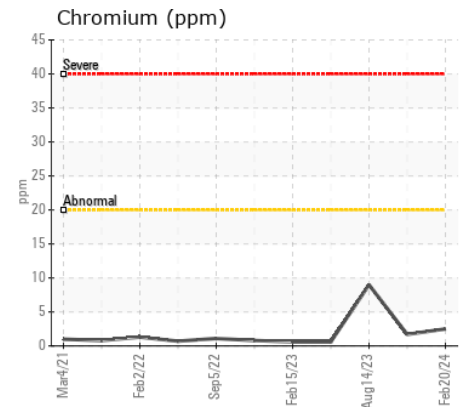
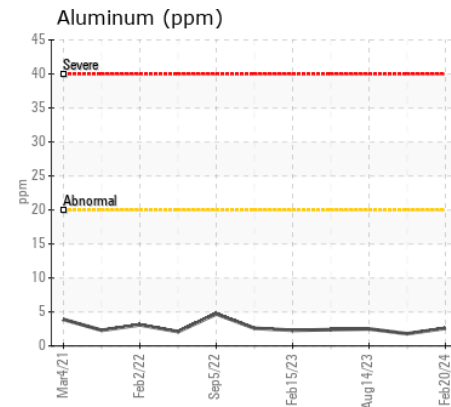
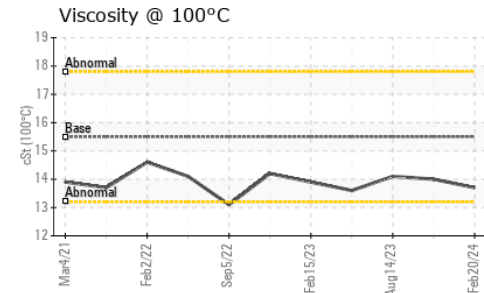
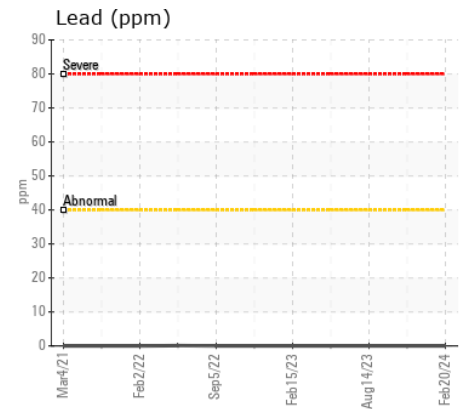
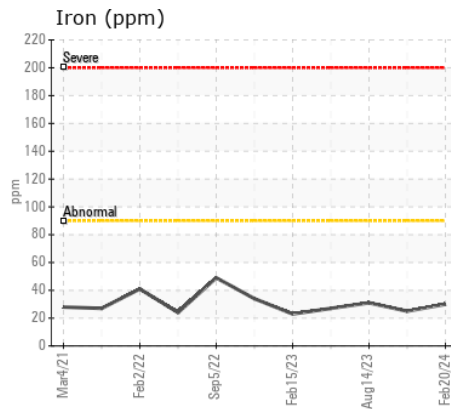
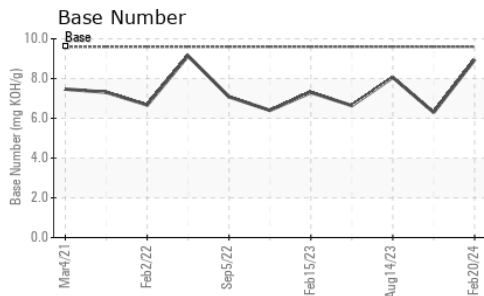
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185(m)	>25	<b>4</b>	4	5
Potassium	ppm	ASTM D5185(m)	>20	<b>&lt;1</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*	>6	<b>0.3</b>	0.4	0.5
Nitration	Abs/cm	ASTM D7624*	>20	<b>10.8</b>	11.0	10.0
Sulfation	Abs/.1mm	ASTM D7415*	>30	<b>19.9</b>	21.8	22.0
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>9</b>	16	36
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>56</b>	56	59
Manganese	ppm	ASTM D5185(m)	1	<b>0</b>	0	<1
Magnesium	ppm	ASTM D5185(m)	1010	<b>891</b>	858	951
Calcium	ppm	ASTM D5185(m)	1070	<b>1020</b>	1005	1022
Phosphorus	ppm	ASTM D5185(m)	1150	<b>934</b>	867	1026
Zinc	ppm	ASTM D5185(m)	1270	<b>1137</b>	1123	1159
Sulfur	ppm	ASTM D5185(m)	2060	<b>2491</b>	2332	2398
Oxidation	Abs/.1mm	ASTM D7414*	>25	<b>17.2</b>	18.8	18.9
Base Number (BN)	mg KOH/g	ASTM D2896*	9.6	<b>8.94</b>	6.30	8.06
Visc @ 100°C	cSt	ASTM D7279(m)	15.5	<b>13.7</b>	14.0	14.1



**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9  
**Sample No.** : GFL0112424  
**Lab Number** : 02618613  
**Unique Number** : 5735723  
**Test Package** : MOB 2  
**Received** : 28 Feb 2024  
**Tested** : 29 Feb 2024  
**Diagnosed** : 29 Feb 2024 - Wes Davis

**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.