



Machine Id  
**413101**  
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>GFL0112426</b>	GFL0099531	GFL0091581
Sample Date		Client Info		<b>21 Feb 2024</b>	17 Dec 2023	23 Oct 2023
Machine Age	hrs	Client Info		<b>2493</b>	2123	53055
Oil Age	hrs	Client Info		<b>378</b>	0	0
Filter Age	hrs	Client Info		<b>378</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)	>80	<b>15</b>	21	29
Chromium	ppm	ASTM D5185(m)	>5	<b>&lt;1</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)	>3	<b>0</b>	0	<1
Aluminum	ppm	ASTM D5185(m)	>30	<b>3</b>	3	4
Lead	ppm	ASTM D5185(m)	>30	<b>&lt;1</b>	0	<1
Copper	ppm	ASTM D5185(m)	>150	<b>1</b>	1	2
Tin	ppm	ASTM D5185(m)	>5	<b>0</b>	0	0
Vanadium	ppm	ASTM D5185(m)		<b>0</b>	0	0

### CONTAMINATION

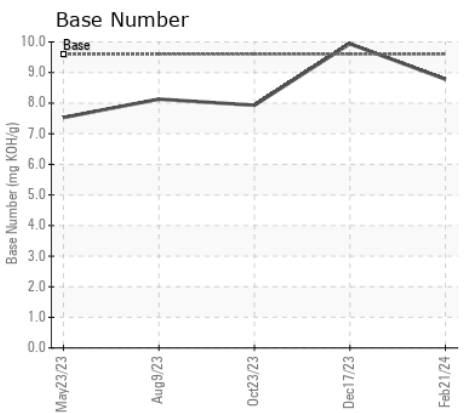
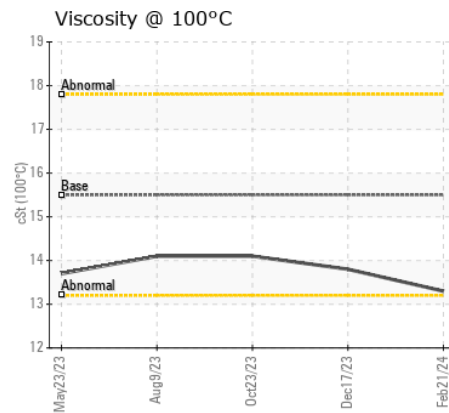
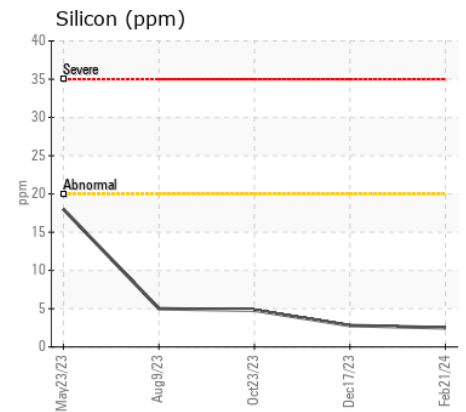
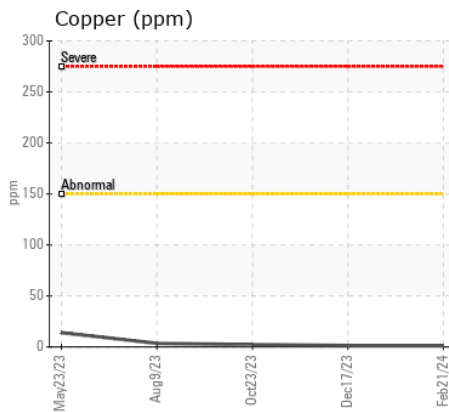
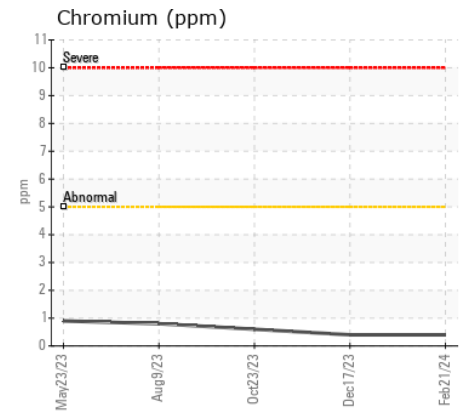
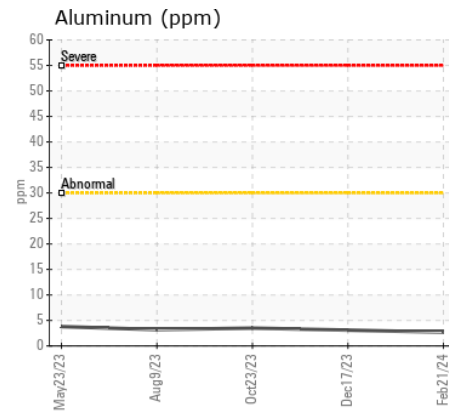
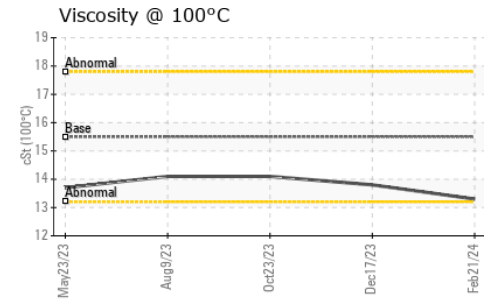
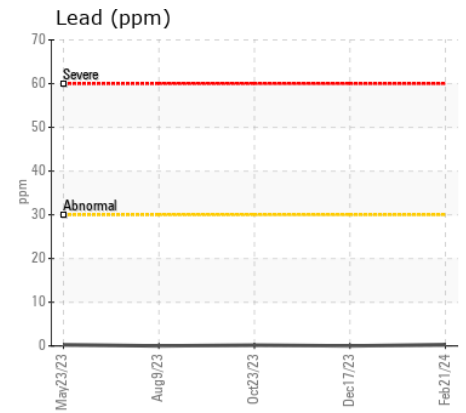
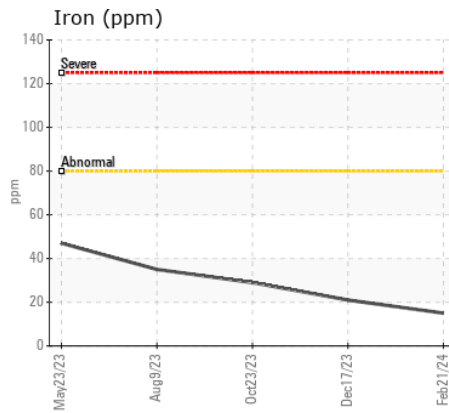
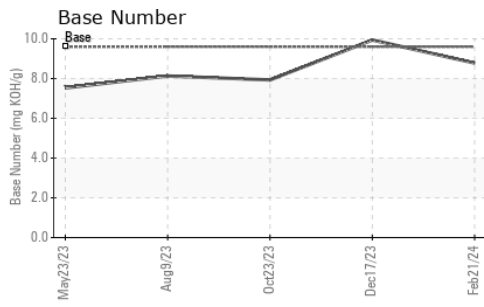
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185(m)	>20	<b>2</b>	3	5
Potassium	ppm	ASTM D5185(m)	>20	<b>3</b>	4	4
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>0.5</b>	0.7	0.8
Nitration	Abs/cm	ASTM D7624*	>20	<b>7.7</b>	8.7	9.8
Sulfation	Abs/.1mm	ASTM D7415*	>30	<b>21.7</b>	21.6	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>1</b>	1	2
Boron	ppm	ASTM D5185(m)	1	<b>3</b>	2	2
Barium	ppm	ASTM D5185(m)	1	<b>0</b>	0	<1
Molybdenum	ppm	ASTM D5185(m)	60	<b>55</b>	58	57
Manganese	ppm	ASTM D5185(m)	1	<b>0</b>	0	0
Magnesium	ppm	ASTM D5185(m)	1010	<b>915</b>	941	905
Calcium	ppm	ASTM D5185(m)	1070	<b>1046</b>	1116	1085
Phosphorus	ppm	ASTM D5185(m)	1150	<b>894</b>	1003	938
Zinc	ppm	ASTM D5185(m)	1270	<b>1016</b>	1189	1158
Sulfur	ppm	ASTM D5185(m)	2060	<b>2182</b>	2621	2348
Oxidation	Abs/.1mm	ASTM D7414*	>25	<b>17.0</b>	17.2	19.2
Base Number (BN)	mg KOH/g	ASTM D2896*	9.6	<b>8.78</b>	9.94	7.93
Visc @ 100°C	cSt	ASTM D7279(m)	15.5	<b>13.3</b>	13.8	14.1



**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9  
**Sample No.** : GFL0112426  
**Lab Number** : 02618611  
**Unique Number** : 5735721  
**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.