



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

Machine Id  
**421051**

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>GFL0112408</b>	GFL0099545	GFL0091586
Sample Date		Client Info		<b>13 Feb 2024</b>	02 Jan 2024	06 Nov 2023
Machine Age	hrs	Client Info		<b>4933</b>	4608	4195
Oil Age	hrs	Client Info		<b>308</b>	500	0
Filter Age	hrs	Client Info		<b>308</b>	500	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>6</b>	6	13
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>4</b>	3	5
Lead	ppm	ASTM D5185(m)	>30	<b>0</b>	0	0
Copper	ppm	ASTM D5185(m)	>150	<b>&lt;1</b>	<1	1
Tin	ppm	ASTM D5185(m)	>5	<b>0</b>	0	0
Vanadium	ppm	ASTM D5185(m)		<b>0</b>	0	0

**CONTAMINATION**

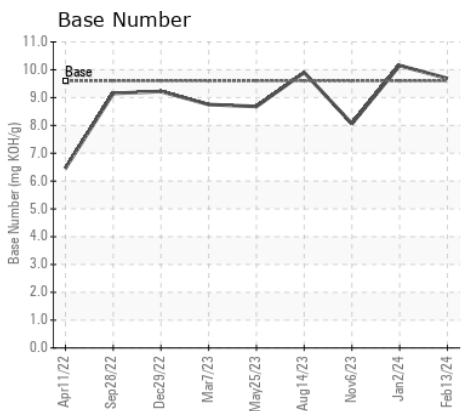
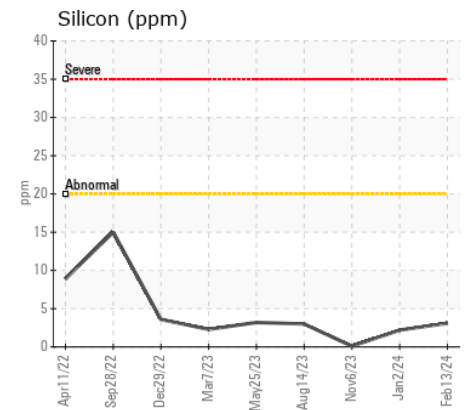
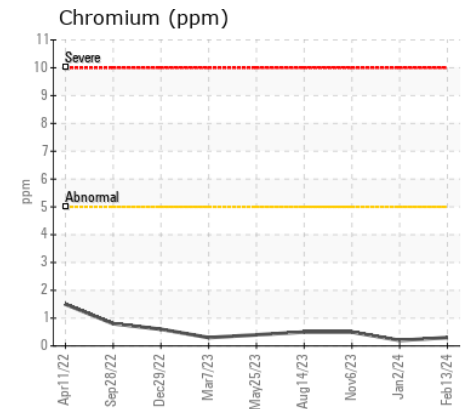
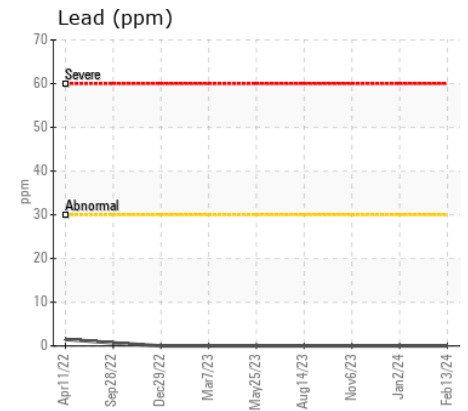
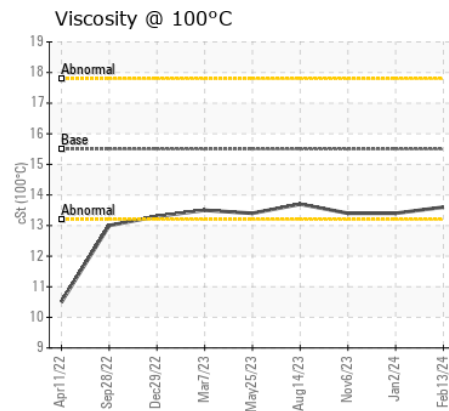
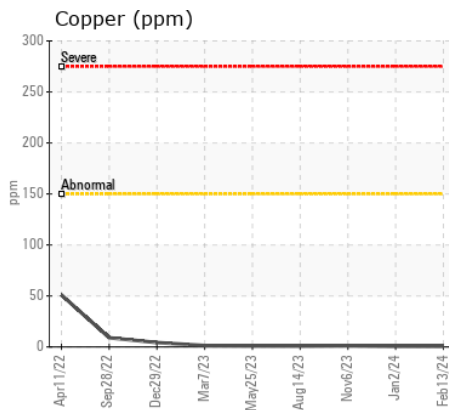
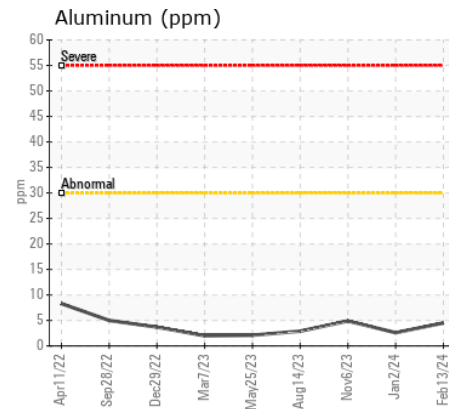
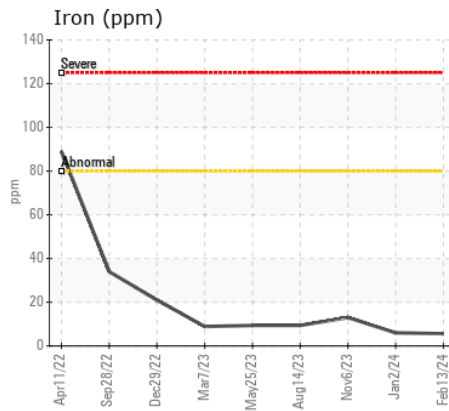
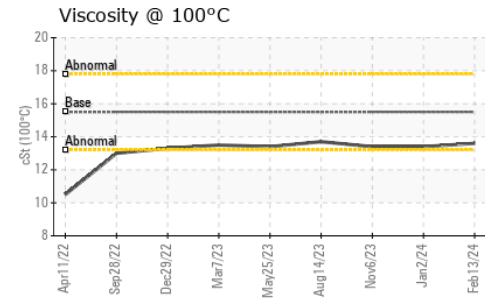
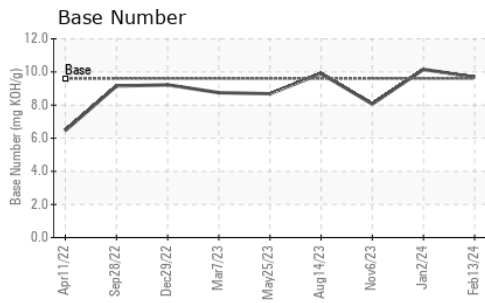
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185(m)	>20	<b>3</b>	2	<1
Potassium	ppm	ASTM D5185(m)	>20	<b>4</b>	2	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>0.1</b>	0.1	0.3
Nitration	Abs/cm	ASTM D7624*	>20	<b>6.2</b>	6.3	8.3
Sulfation	Abs/.1mm	ASTM D7415*	>30	<b>18.3</b>	18.9	19.7
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	<1
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>58</b>	57	57
Manganese	ppm	ASTM D5185(m)	1	<b>0</b>	0	0
Magnesium	ppm	ASTM D5185(m)	1010	<b>937</b>	927	934
Calcium	ppm	ASTM D5185(m)	1070	<b>1056</b>	1066	1085
Phosphorus	ppm	ASTM D5185(m)	1150	<b>1035</b>	1015	987
Zinc	ppm	ASTM D5185(m)	1270	<b>1163</b>	1167	1174
Sulfur	ppm	ASTM D5185(m)	2060	<b>2739</b>	2720	2501
Oxidation	Abs/.1mm	ASTM D7414*	>25	<b>14.3</b>	14.6	16.5
Base Number (BN)	mg KOH/g	ASTM D2896*	9.6	<b>9.69</b>	10.15	8.06
Visc @ 100°C	cSt	ASTM D7279(m)	15.5	<b>13.6</b>	13.4	13.4



**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9  
**Sample No.** : GFL0112408  
**Lab Number** : 02616929  
**Unique Number** : 5734039  
**Test Package** : MOB 2

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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.