



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



Machine Id  
**9951**

Component  
**Diesel Engine**

Fluid  
**PETRO CANADA DURON XL SYN BLEND 15W40 (37 LTR)**

**RECOMMENDATION**

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>GFL0112418</b>	GFL0099539	GFL0084298
Sample Date		Client Info		<b>27 Feb 2024</b>	26 Dec 2023	20 Jul 2023
Machine Age	hrs	Client Info		<b>26846</b>	505000	489343
Oil Age	hrs	Client Info		<b>476</b>	0	0
Filter Age	hrs	Client Info		<b>476</b>	0	0
Oil Changed		Client Info		<b>Changed</b>	N/A	N/A
Filter Changed		Client Info		<b>Changed</b>	N/A	N/A
Sample Status				<b>NORMAL</b>	NORMAL	NORMAL

**WEAR**

All component wear rates are normal.

Iron	ppm	ASTM D5185(m)	>120	<b>9</b>	3	4
Chromium	ppm	ASTM D5185(m)	>20	<b>&lt;1</b>	0	0
Nickel	ppm	ASTM D5185(m)	>5	<b>&lt;1</b>	0	0
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>2</b>	2	1
Lead	ppm	ASTM D5185(m)	>40	<b>&lt;1</b>	<1	<1
Copper	ppm	ASTM D5185(m)	>330	<b>&lt;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**

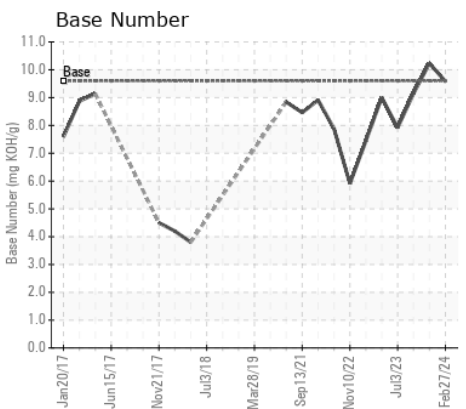
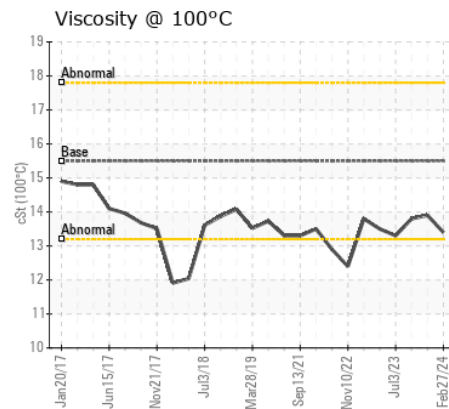
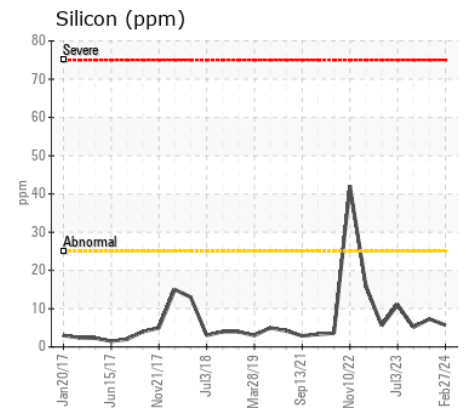
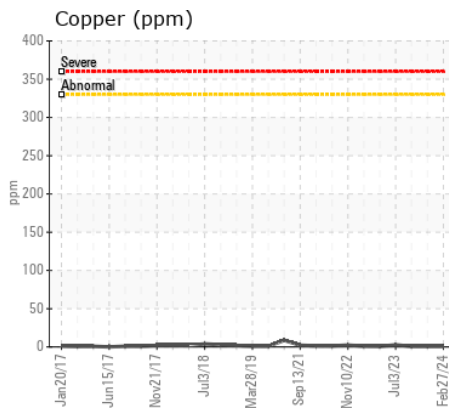
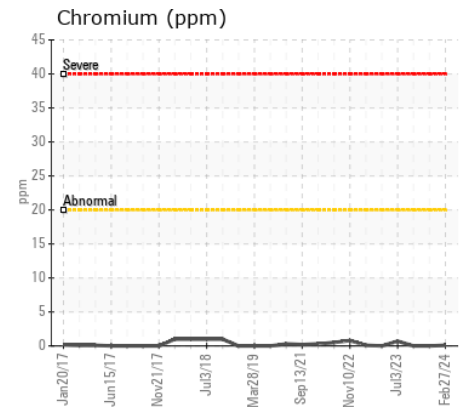
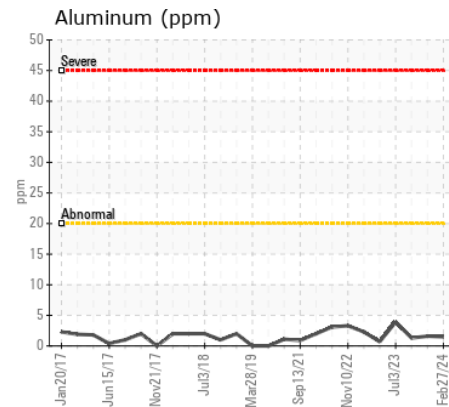
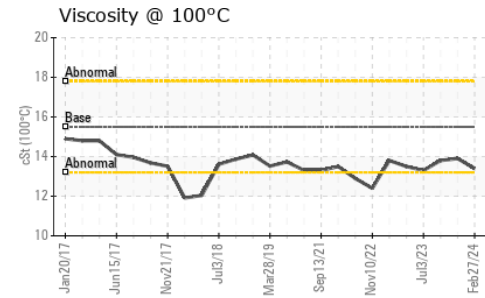
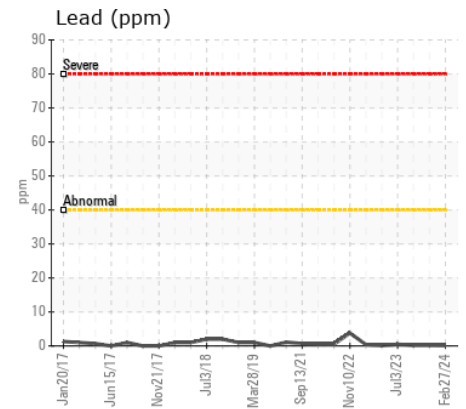
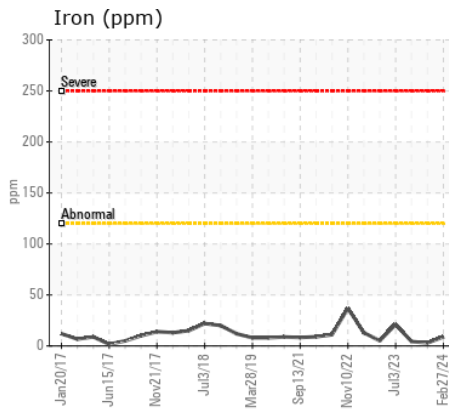
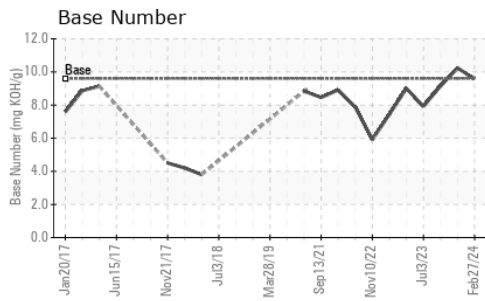
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185(m)	>25	<b>6</b>	7	5
Potassium	ppm	ASTM D5185(m)	>20	<b>&lt;1</b>	<1	0
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*	>4	<b>0.5</b>	0	0.2
Nitration	Abs/cm	ASTM D7624*	>20	<b>7.7</b>	4.8	5.9
Sulfation	Abs/.1mm	ASTM D7415*	>30	<b>18.7</b>	18.1	19.4
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>3</b>	2	3
Boron	ppm	ASTM D5185(m)	1	<b>2</b>	3	2
Barium	ppm	ASTM D5185(m)	1	<b>0</b>	0	0
Molybdenum	ppm	ASTM D5185(m)	60	<b>55</b>	55	55
Manganese	ppm	ASTM D5185(m)	1	<b>0</b>	0	<1
Magnesium	ppm	ASTM D5185(m)	1010	<b>900</b>	908	928
Calcium	ppm	ASTM D5185(m)	1070	<b>1028</b>	1026	990
Phosphorus	ppm	ASTM D5185(m)	1150	<b>976</b>	970	1025
Zinc	ppm	ASTM D5185(m)	1270	<b>1129</b>	1137	1136
Sulfur	ppm	ASTM D5185(m)	2060	<b>2603</b>	2705	2547
Oxidation	Abs/.1mm	ASTM D7414*	>25	<b>14.4</b>	13.6	14.6
Base Number (BN)	mg KOH/g	ASTM D2896*	9.6	<b>9.58</b>	10.23	9.15
Visc @ 100°C	cSt	ASTM D7279(m)	15.5	<b>13.4</b>	13.9	13.8



**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9  
**Sample No.** : GFL0112418 **Received** : 04 Mar 2024  
**Lab Number** : 02619530 **Tested** : 05 Mar 2024  
**Unique Number** : 5736640 **Diagnosed** : 05 Mar 2024 - Kevin Marson  
**Test Package** : MOB 2

**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.