



Machine Id  
**201072**  
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>GFL0117329</b>	GFL0099558	GFL0091648
Sample Date		Client Info		<b>03 Apr 2024</b>	09 Jan 2024	03 Oct 2023
Machine Age	kms	Client Info		<b>201922</b>	11807	8176
Oil Age	kms	Client Info		<b>0</b>	515	0
Filter Age	kms	Client Info		<b>0</b>	515	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>34</b>	17	16
Chromium	ppm	ASTM D5185(m)	>5	<b>&lt;1</b>	<1	<1
Nickel	ppm	ASTM D5185(m)	>2	<b>&lt;1</b>	<1	0
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	1
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**

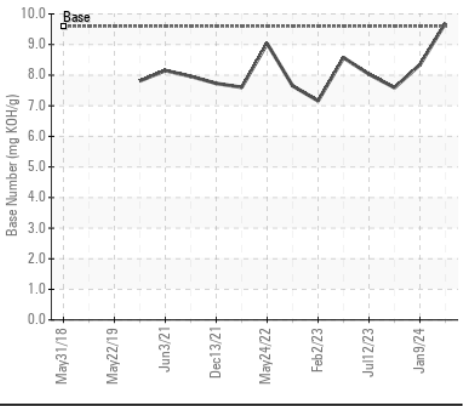
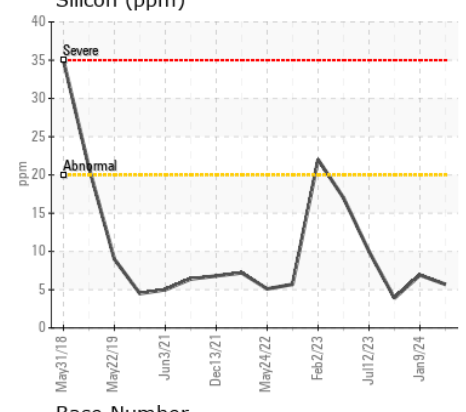
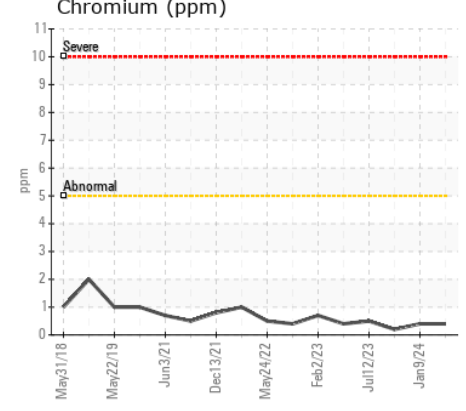
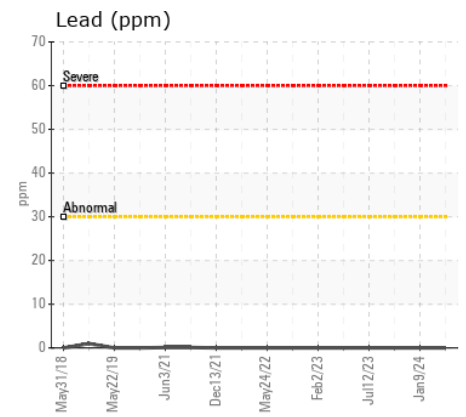
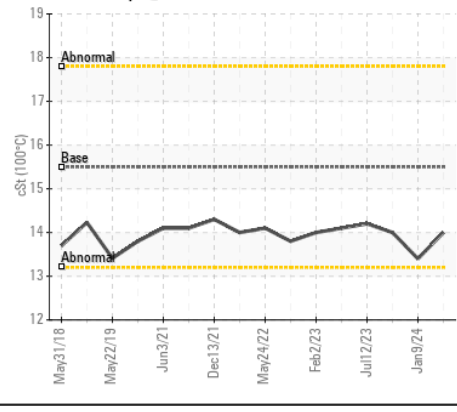
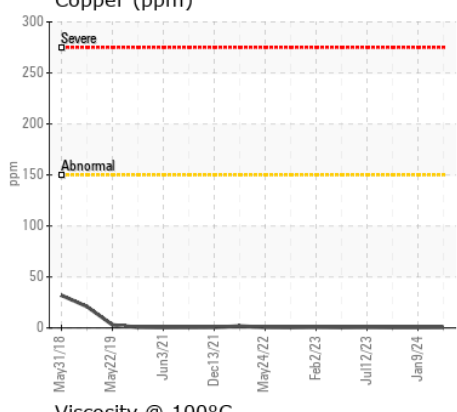
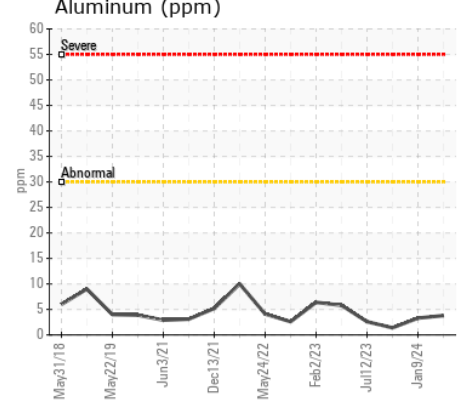
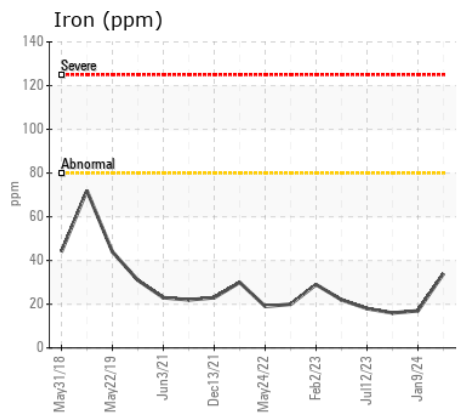
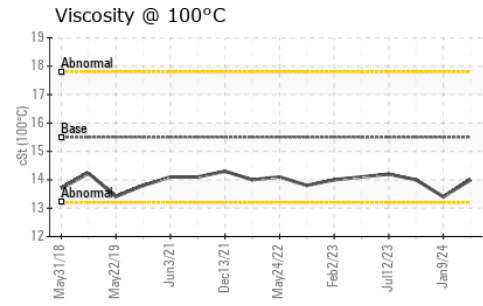
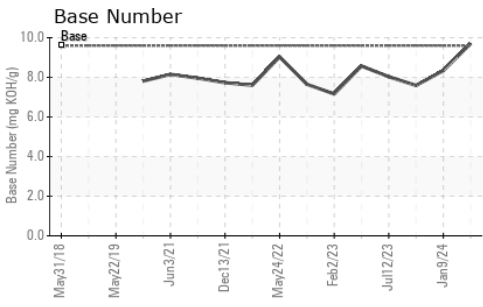
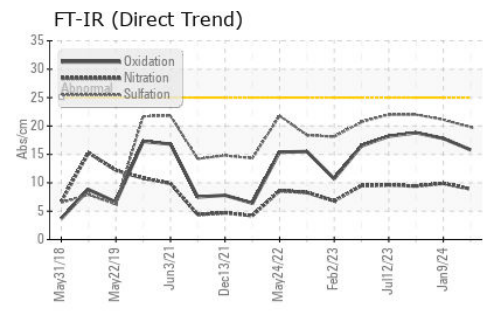
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185(m)	>20	<b>6</b>	7	4
Potassium	ppm	ASTM D5185(m)	>20	<b>&lt;1</b>	<1	0
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>0.6</b>	0.8	0.9
Nitration	Abs/cm	ASTM D7624*	>20	<b>8.9</b>	9.9	9.4
Sulfation	Abs/.1mm	ASTM D7415*	>30	<b>19.8</b>	21.1	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>&lt;1</b>	1	1
Boron	ppm	ASTM D5185(m)	1	<b>3</b>	3	2
Barium	ppm	ASTM D5185(m)	1	<b>0</b>	0	<1
Molybdenum	ppm	ASTM D5185(m)	60	<b>57</b>	55	60
Manganese	ppm	ASTM D5185(m)	1	<b>&lt;1</b>	0	0
Magnesium	ppm	ASTM D5185(m)	1010	<b>937</b>	896	945
Calcium	ppm	ASTM D5185(m)	1070	<b>1024</b>	1030	1025
Phosphorus	ppm	ASTM D5185(m)	1150	<b>976</b>	974	995
Zinc	ppm	ASTM D5185(m)	1270	<b>1157</b>	1129	1187
Sulfur	ppm	ASTM D5185(m)	2060	<b>2441</b>	2498	2467
Oxidation	Abs/.1mm	ASTM D7414*	>25	<b>15.8</b>	17.8	18.8
Base Number (BN)	mg KOH/g	ASTM D2896*	9.6	<b>9.70</b>	8.34	7.59
Visc @ 100°C	cSt	ASTM D7279(m)	15.5	<b>14.0</b>	13.4	14.0



**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9  
**Sample No.** : GFL0117329  
**Lab Number** : 02628766  
**Unique Number** : 5761898  
**Test Package** : MOB 2  
**Received** : 15 Apr 2024  
**Tested** : 17 Apr 2024  
**Diagnosed** : 17 Apr 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.