



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>GFL0117339</b>	GFL0112426	GFL0099531
Sample Date		Client Info		<b>08 May 2024</b>	21 Feb 2024	17 Dec 2023
Machine Age	hrs	Client Info		<b>557</b>	2493	2123
Oil Age	hrs	Client Info		<b>557</b>	378	0
Filter Age	hrs	Client Info		<b>557</b>	378	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**

Metal levels are typical for a new component breaking in.

Iron	ppm	ASTM D5185(m)	>80	<b>20</b>	15	21
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	0
Aluminum	ppm	ASTM D5185(m)	>30	<b>3</b>	3	3
Lead	ppm	ASTM D5185(m)	>30	<b>0</b>	<1	0
Copper	ppm	ASTM D5185(m)	>150	<b>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**

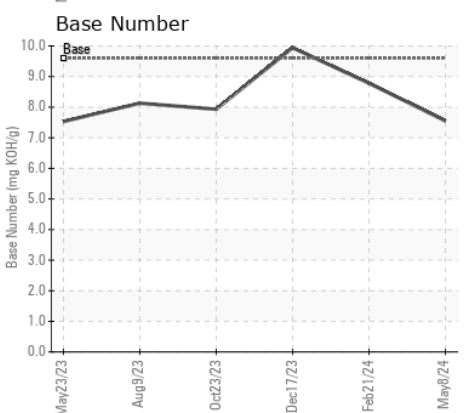
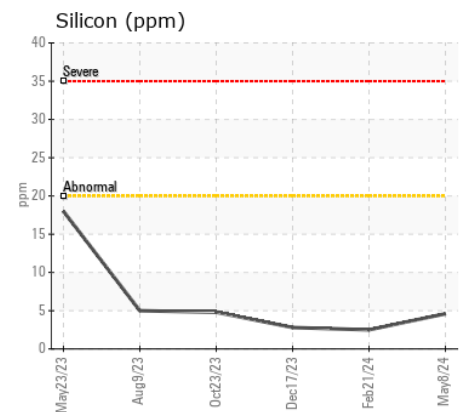
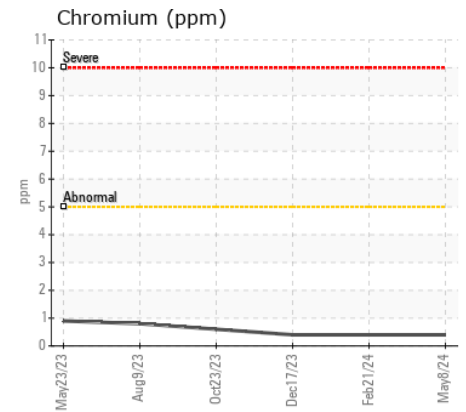
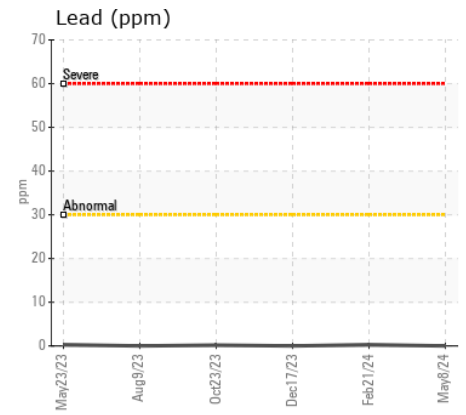
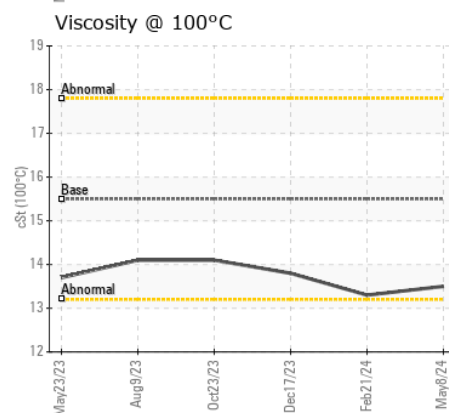
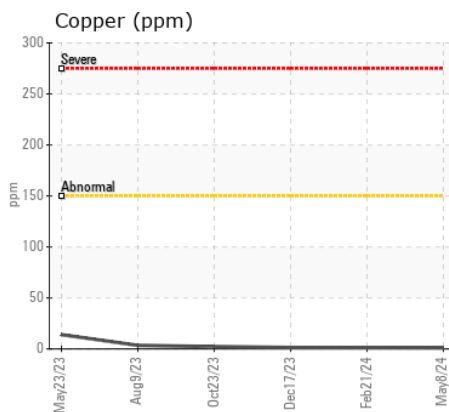
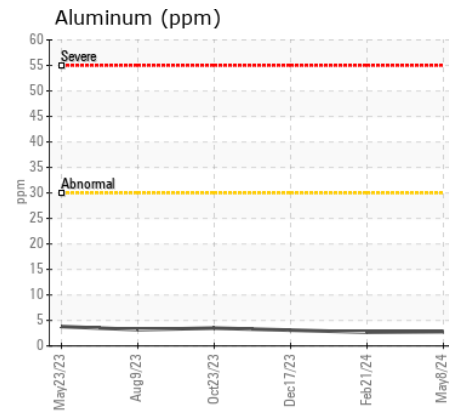
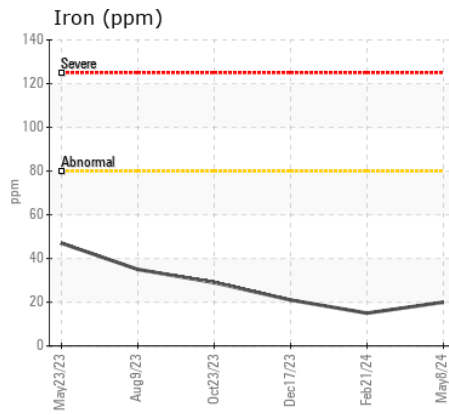
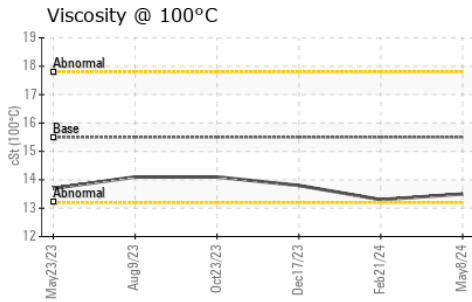
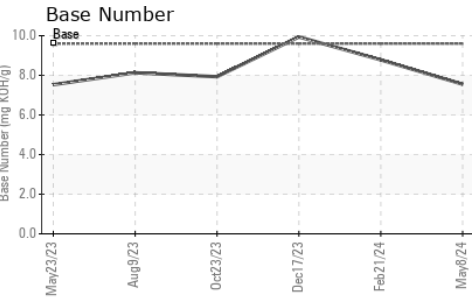
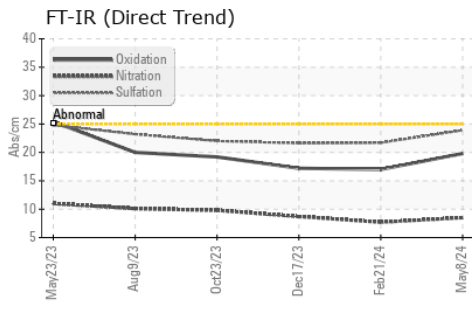
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185(m)	>20	<b>5</b>	2	3
Potassium	ppm	ASTM D5185(m)	>20	<b>3</b>	3	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>0.7</b>	0.5	0.7
Nitration	Abs/cm	ASTM D7624*	>20	<b>8.5</b>	7.7	8.7
Sulfation	Abs/.1mm	ASTM D7415*	>30	<b>23.9</b>	21.7	21.6
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>5</b>	3	2
Barium	ppm	ASTM D5185(m)	1	<b>0</b>	0	0
Molybdenum	ppm	ASTM D5185(m)	60	<b>56</b>	55	58
Manganese	ppm	ASTM D5185(m)	1	<b>&lt;1</b>	0	0
Magnesium	ppm	ASTM D5185(m)	1010	<b>915</b>	915	941
Calcium	ppm	ASTM D5185(m)	1070	<b>1060</b>	1046	1116
Phosphorus	ppm	ASTM D5185(m)	1150	<b>966</b>	894	1003
Zinc	ppm	ASTM D5185(m)	1270	<b>1073</b>	1016	1189
Sulfur	ppm	ASTM D5185(m)	2060	<b>2091</b>	2182	2621
Oxidation	Abs/.1mm	ASTM D7414*	>25	<b>19.8</b>	17.0	17.2
Base Number (BN)	mg KOH/g	ASTM D2896*	9.6	<b>7.55</b>	8.78	9.94
Visc @ 100°C	cSt	ASTM D7279(m)	15.5	<b>13.5</b>	13.3	13.8



**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9  
**Sample No.** : GFL0117339  
**Lab Number** : 02635986  
**Unique Number** : 5785148  
**Test Package** : MOB 2  
**Received** : 16 May 2024  
**Tested** : 17 May 2024  
**Diagnosed** : 17 May 2024 - Wes Davis

**GFL Environmental - 550 - Rocky View County**  
 220 Carmek Blvd  
 Rocky View County, AB  
 CA T1X 1X1  
 Contact: GFL Calgary  
 calgarymaintenance@gflenv.com  
 T: (403)369-6163

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.