



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

Machine Id  
**201039**  
 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>GFL0112445</b>	GFL0112390	GFL0099588
Sample Date		Client Info		<b>19 Jun 2024</b>	27 Feb 2024	06 Dec 2023
Machine Age	hrs	Client Info		<b>12840</b>	12179	431911
Oil Age	hrs	Client Info		<b>661</b>	206	0
Filter Age	hrs	Client Info		<b>661</b>	206	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)	>100	<b>12</b>	10	8
Chromium	ppm	ASTM D5185(m)	>20	<b>&lt;1</b>	<1	0
Nickel	ppm	ASTM D5185(m)	>4	<b>0</b>	<1	0
Titanium	ppm	ASTM D5185(m)		<b>0</b>	0	0
Silver	ppm	ASTM D5185(m)	>3	<b>&lt;1</b>	0	<1
Aluminum	ppm	ASTM D5185(m)	>20	<b>2</b>	2	2
Lead	ppm	ASTM D5185(m)	>40	<b>3</b>	3	5
Copper	ppm	ASTM D5185(m)	>330	<b>&lt;1</b>	<1	<1
Tin	ppm	ASTM D5185(m)	>15	<b>0</b>	<1	0
Vanadium	ppm	ASTM D5185(m)		<b>0</b>	0	0

**CONTAMINATION**

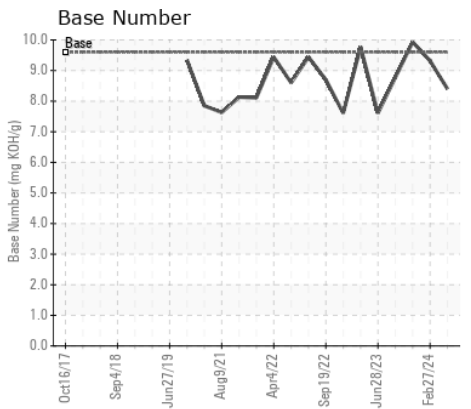
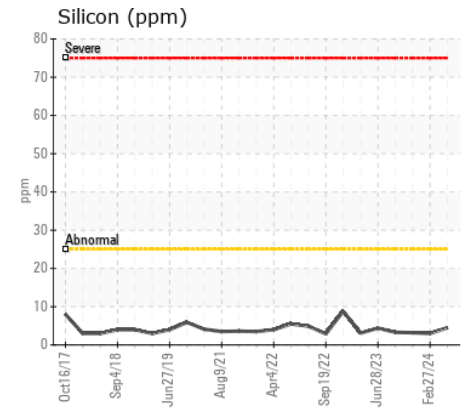
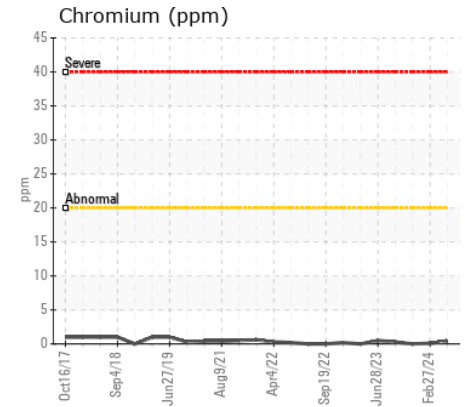
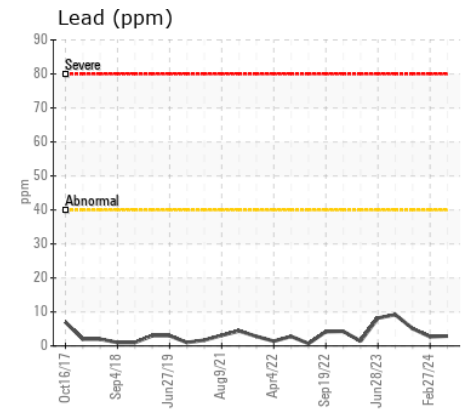
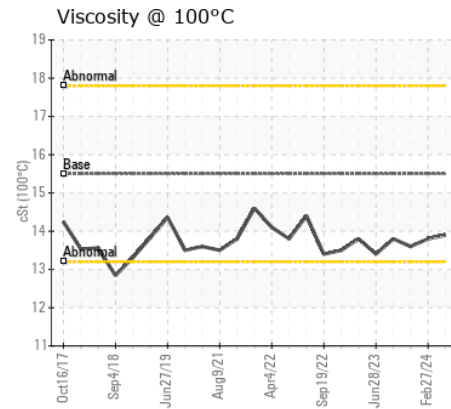
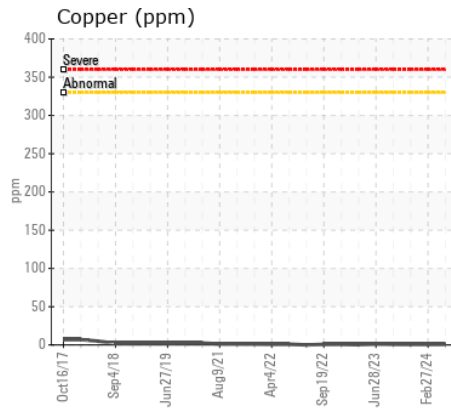
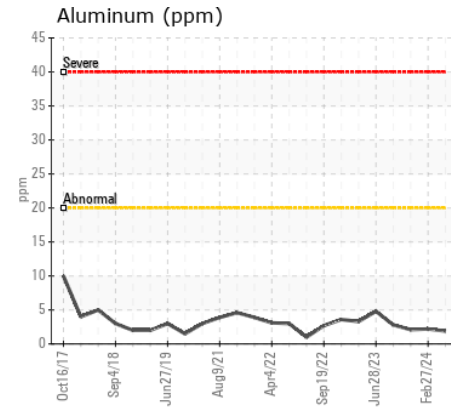
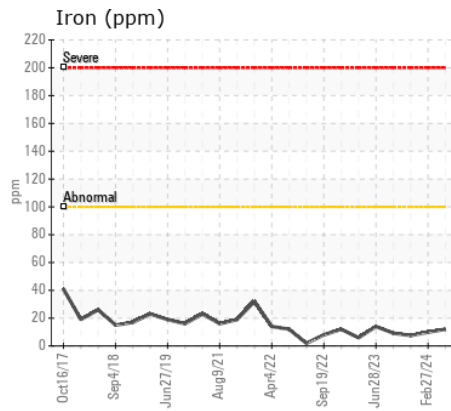
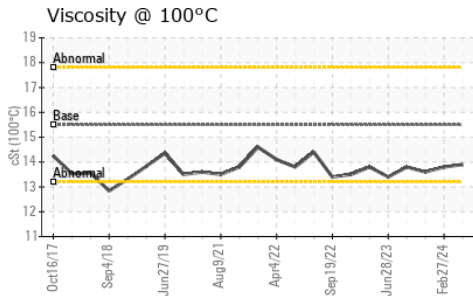
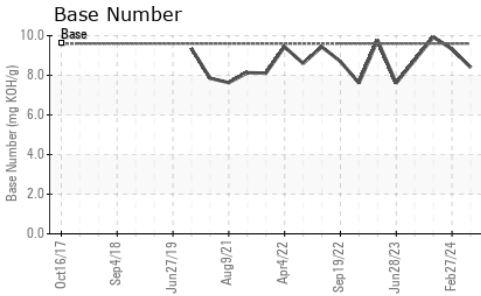
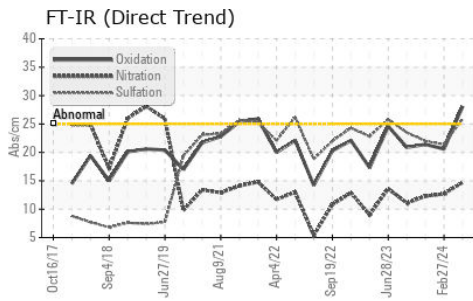
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185(m)	>25	<b>4</b>	3	3
Potassium	ppm	ASTM D5185(m)	>20	<b>1</b>	2	<1
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>1.4</b>	1.2	1.1
Nitration	Abs/cm	ASTM D7624*	>20	<b>14.7</b>	12.7	12.3
Sulfation	Abs/.1mm	ASTM D7415*	>30	<b>25.9</b>	21.4	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>2</b>	2	2
Boron	ppm	ASTM D5185(m)	1	<b>4</b>	2	2
Barium	ppm	ASTM D5185(m)	1	<b>0</b>	0	<1
Molybdenum	ppm	ASTM D5185(m)	60	<b>57</b>	57	59
Manganese	ppm	ASTM D5185(m)	1	<b>&lt;1</b>	0	0
Magnesium	ppm	ASTM D5185(m)	1010	<b>914</b>	922	954
Calcium	ppm	ASTM D5185(m)	1070	<b>1024</b>	1051	1050
Phosphorus	ppm	ASTM D5185(m)	1150	<b>965</b>	999	1002
Zinc	ppm	ASTM D5185(m)	1270	<b>1157</b>	1163	1204
Sulfur	ppm	ASTM D5185(m)	2060	<b>2392</b>	2607	2513
Oxidation	Abs/.1mm	ASTM D7414*	>25	<b>28.1</b>	20.6	21.4
Base Number (BN)	mg KOH/g	ASTM D2896*	9.6	<b>8.40</b>	9.32	9.93
Visc @ 100°C	cSt	ASTM D7279(m)	15.5	<b>13.9</b>	13.8	13.6



**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9  
**Sample No.** : GFL0112445  
**Lab Number** : 02643947  
**Unique Number** : 5801486  
**Test Package** : MOB 2

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

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.

T:  
 F: (403)369-6163