



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

Machine Id  
**4496**  
 Component  
**Diesel Engine**  
 Fluid  
**PETRO CANADA DURON XL SYN BLEND 15W40 (39 LTR)**

**RECOMMENDATION**

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>GFL0117326</b>	GFL0077594	GFL0077561
Sample Date		Client Info		<b>29 Mar 2024</b>	04 May 2023	06 Apr 2023
Machine Age	hrs	Client Info		<b>25506</b>	24700	24546
Oil Age	hrs	Client Info		<b>906</b>	169	570
Filter Age	hrs	Client Info		<b>906</b>	169	570
Oil Changed		Client Info		<b>Changed</b>	Changed	N/A
Filter Changed		Client Info		<b>Changed</b>	Changed	N/A
Sample Status				<b>NORMAL</b>	NORMAL	NORMAL

**WEAR**

All component wear rates are normal.

Iron	ppm	ASTM D5185(m)	>100	<b>14</b>	3	8
Chromium	ppm	ASTM D5185(m)	>20	<b>&lt;1</b>	0	<1
Nickel	ppm	ASTM D5185(m)	>4	<b>&lt;1</b>	<1	<1
Titanium	ppm	ASTM D5185(m)		<b>0</b>	<1	<1
Silver	ppm	ASTM D5185(m)	>3	<b>0</b>	0	0
Aluminum	ppm	ASTM D5185(m)	>20	<b>5</b>	2	5
Lead	ppm	ASTM D5185(m)	>40	<b>0</b>	<1	0
Copper	ppm	ASTM D5185(m)	>330	<b>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**

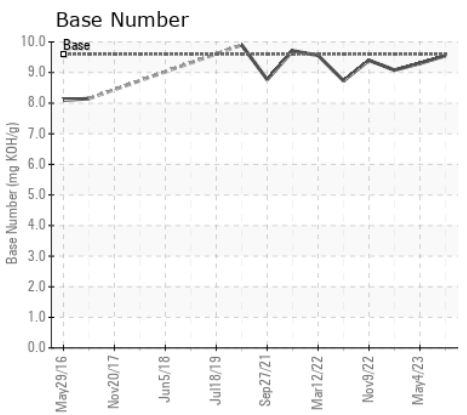
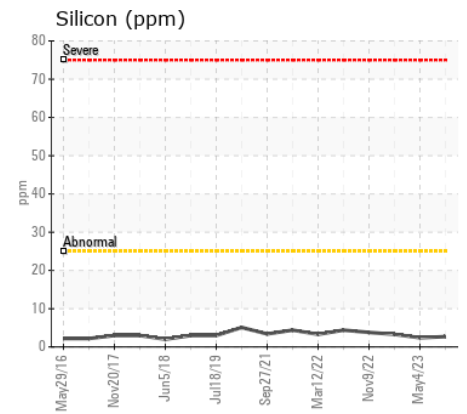
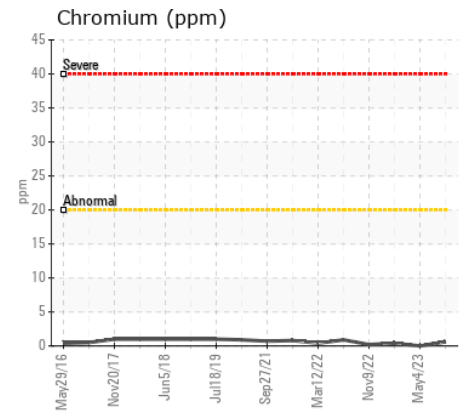
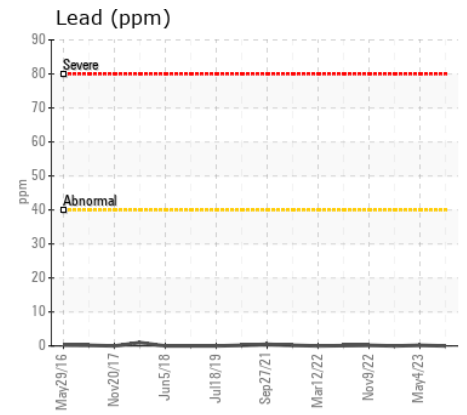
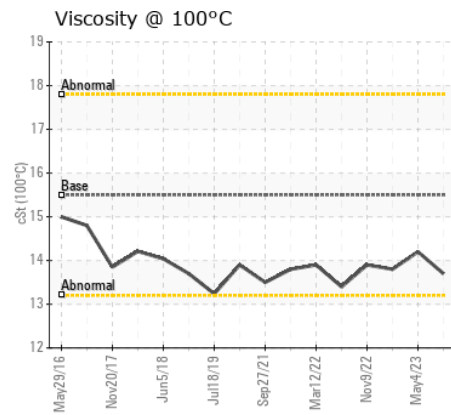
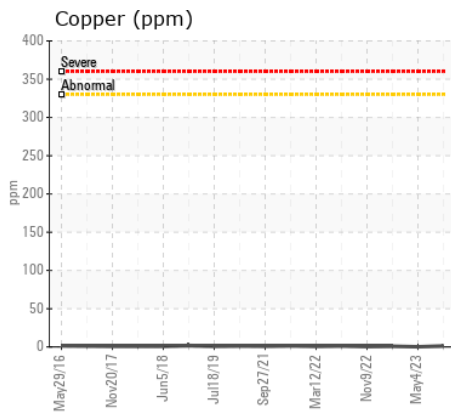
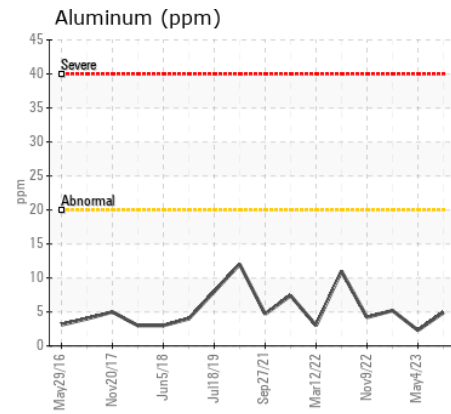
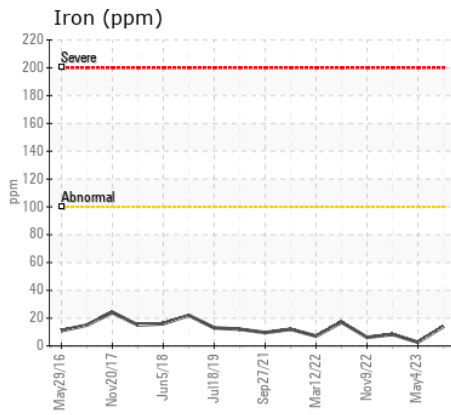
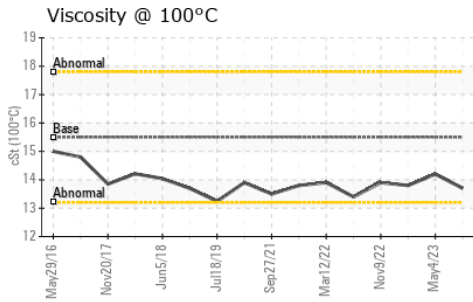
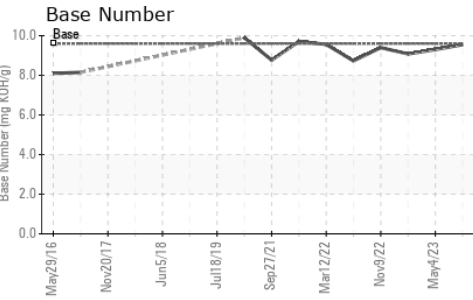
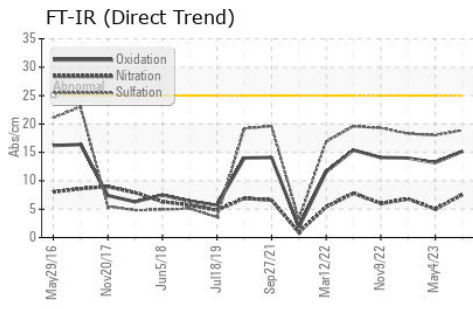
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185(m)	>25	<b>3</b>	2	3
Potassium	ppm	ASTM D5185(m)	>20	<b>1</b>	<1	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>0.3</b>	0	0.2
Nitration	Abs/cm	ASTM D7624*	>20	<b>7.6</b>	5.0	6.8
Sulfation	Abs/.1mm	ASTM D7415*	>30	<b>18.9</b>	18.0	18.3
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>	1	2
Boron	ppm	ASTM D5185(m)	1	<b>3</b>	3	2
Barium	ppm	ASTM D5185(m)	1	<b>0</b>	0	0
Molybdenum	ppm	ASTM D5185(m)	60	<b>58</b>	57	56
Manganese	ppm	ASTM D5185(m)	1	<b>&lt;1</b>	<1	<1
Magnesium	ppm	ASTM D5185(m)	1010	<b>936</b>	924	891
Calcium	ppm	ASTM D5185(m)	1070	<b>1036</b>	1066	1032
Phosphorus	ppm	ASTM D5185(m)	1150	<b>958</b>	1060	1021
Zinc	ppm	ASTM D5185(m)	1270	<b>1151</b>	1125	1097
Sulfur	ppm	ASTM D5185(m)	2060	<b>2444</b>	2614	2552
Oxidation	Abs/.1mm	ASTM D7414*	>25	<b>15.2</b>	13.2	14.0
Base Number (BN)	mg KOH/g	ASTM D2896*	9.6	<b>9.55</b>	9.30	9.08
Visc @ 100°C	cSt	ASTM D7279(m)	15.5	<b>13.7</b>	14.2	13.8



**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9  
**Sample No.** : GFL0117326  
**Lab Number** : 02628782  
**Unique Number** : 5761914  
**Test Package** : MOB 2

**Received** : 15 Apr 2024  
**Tested** : 17 Apr 2024  
**Diagnosed** : 17 Apr 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:  
 F: (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.