



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

Machine Id  
**9103**  
 Component  
**Front Diesel Engine**  
 Fluid  
**PETRO CANADA DURON XL SYN BLEND 15W40 (31 LTR)**

**RECOMMENDATION**

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>GFL0117320</b>	GFL0099616	GFL0091583
Sample Date		Client Info		<b>11 Apr 2024</b>	21 Jan 2024	31 Oct 2023
Machine Age	kms	Client Info		<b>75818</b>	85404	687033
Oil Age	kms	Client Info		<b>354</b>	635	0
Filter Age	kms	Client Info		<b>354</b>	635	0
Oil Changed		Client Info		<b>Changed</b>	N/A	Changed
Filter Changed		Client Info		<b>Changed</b>	N/A	Changed
Sample Status				<b>NORMAL</b>	NORMAL	NORMAL

**WEAR**

Metal levels are typical for a new component breaking in.

Iron	ppm	ASTM D5185(m)	>100	<b>22</b>	43	91
Chromium	ppm	ASTM D5185(m)	>20	<b>2</b>	3	6
Nickel	ppm	ASTM D5185(m)	>4	<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	<1
Aluminum	ppm	ASTM D5185(m)	>20	<b>1</b>	2	2
Lead	ppm	ASTM D5185(m)	>40	<b>&lt;1</b>	3	8
Copper	ppm	ASTM D5185(m)	>330	<b>&lt;1</b>	2	3
Tin	ppm	ASTM D5185(m)	>15	<b>0</b>	<1	<1
Vanadium	ppm	ASTM D5185(m)		<b>0</b>	0	0

**CONTAMINATION**

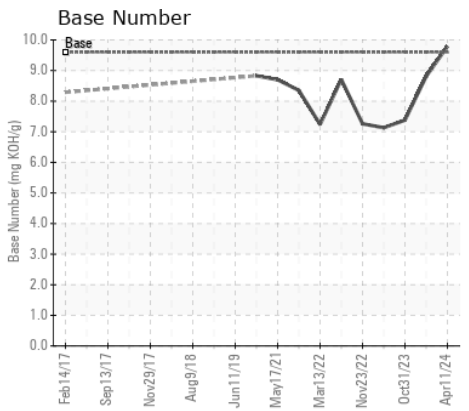
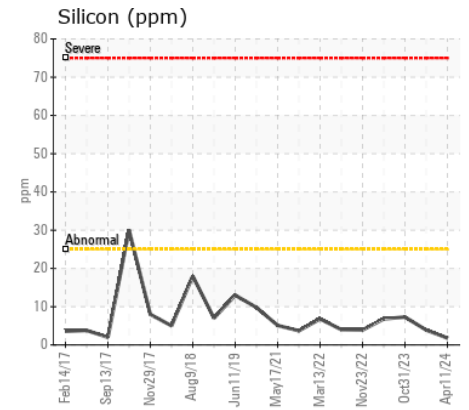
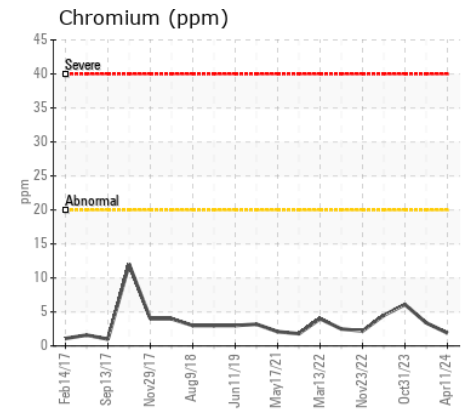
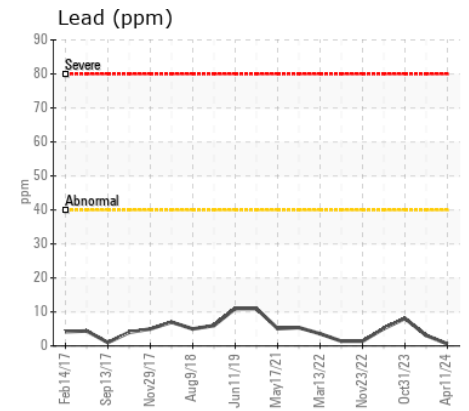
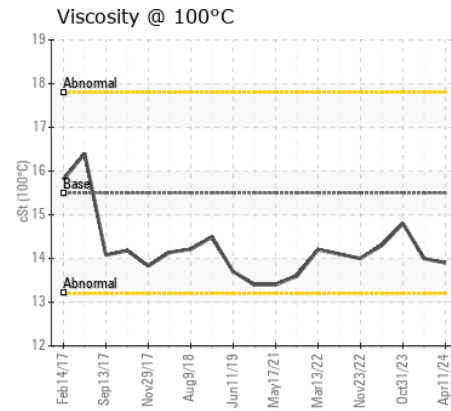
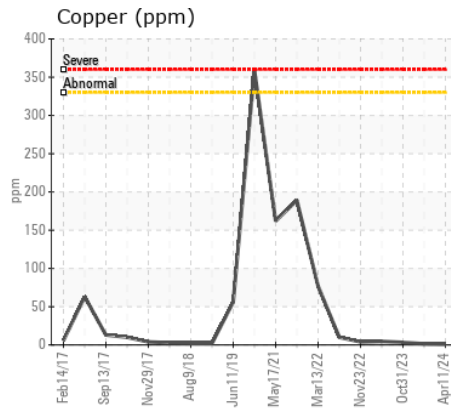
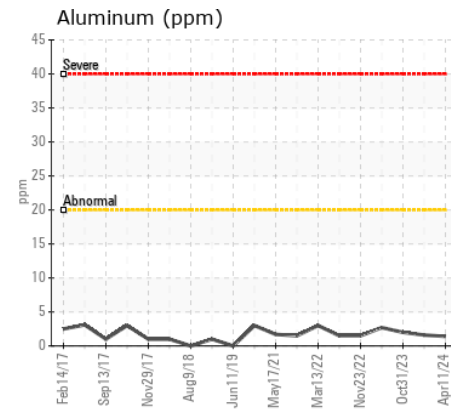
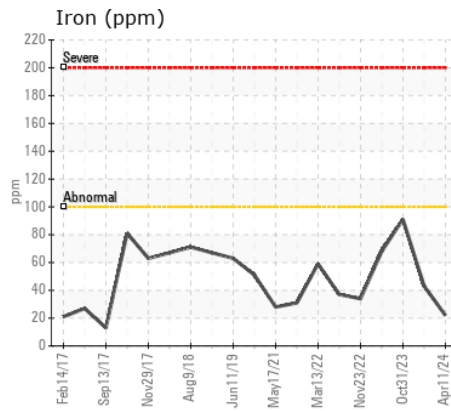
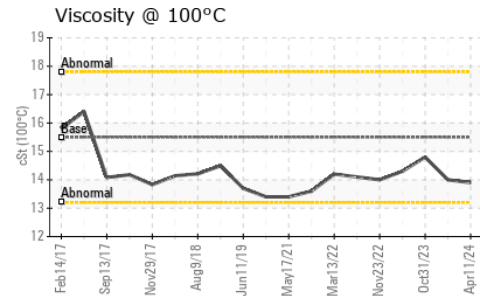
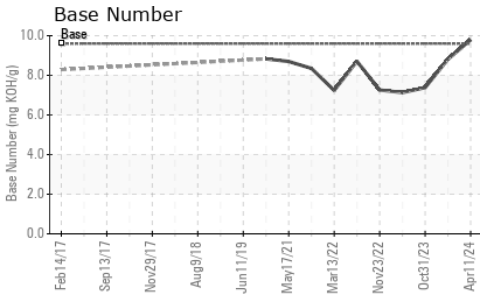
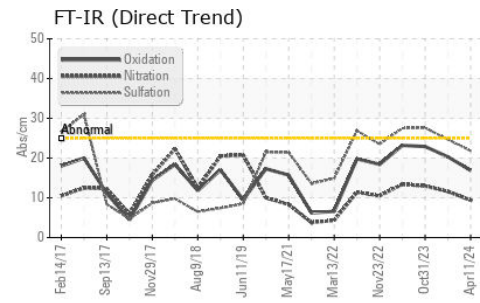
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185(m)	>25	<b>2</b>	4	7
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>1</b>	1.6	2.6
Nitration	Abs/cm	ASTM D7624*	>20	<b>9.4</b>	11.6	13.0
Sulfation	Abs/.1mm	ASTM D7415*	>30	<b>21.8</b>	24.7	27.6
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>3</b>	4	6
Boron	ppm	ASTM D5185(m)	1	<b>4</b>	2	3
Barium	ppm	ASTM D5185(m)	1	<b>0</b>	0	<1
Molybdenum	ppm	ASTM D5185(m)	60	<b>59</b>	60	62
Manganese	ppm	ASTM D5185(m)	1	<b>&lt;1</b>	0	<1
Magnesium	ppm	ASTM D5185(m)	1010	<b>969</b>	972	981
Calcium	ppm	ASTM D5185(m)	1070	<b>1066</b>	1132	1124
Phosphorus	ppm	ASTM D5185(m)	1150	<b>1026</b>	1045	1007
Zinc	ppm	ASTM D5185(m)	1270	<b>1187</b>	1233	1243
Sulfur	ppm	ASTM D5185(m)	2060	<b>2516</b>	2707	2396
Oxidation	Abs/.1mm	ASTM D7414*	>25	<b>16.9</b>	20.3	22.9
Base Number (BN)	mg KOH/g	ASTM D2896*	9.6	<b>9.79</b>	8.81	7.38
Visc @ 100°C	cSt	ASTM D7279(m)	15.5	<b>13.9</b>	14.0	14.8



**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9  
**Sample No.** : GFL0117320  
**Lab Number** : 02629135  
**Unique Number** : 5762267  
**Test Package** : MOB 2

**GFL Environmental - 550 - Rocky View County**  
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 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.

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