



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

Machine Id  
**801187**  
 Component  
**Diesel Engine**  
 Fluid  
**PETRO CANADA DURON XL SYN BLEND 15W40 (--- GAL)**

**RECOMMENDATION**

No corrective action is recommended at this time. Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>GFL0117308</b>	GFL0084280	GFL0084362
Sample Date		Client Info		<b>16 Apr 2024</b>	18 Oct 2023	29 Aug 2023
Machine Age	hrs	Client Info		<b>1766</b>	18893	272163
Oil Age	hrs	Client Info		<b>1766</b>	346	0
Filter Age	hrs	Client Info		<b>1766</b>	0	0
Oil Changed		Client Info		<b>N/A</b>	Changed	Changed
Filter Changed		Client Info		<b>N/A</b>	Changed	Changed
Sample Status				<b>NORMAL</b>	NORMAL	ABNORMAL

**WEAR**

All component wear rates are normal.

Iron	ppm	ASTM D5185(m)	>100	<b>25</b>	34	▲ 135
Chromium	ppm	ASTM D5185(m)	>20	<b>&lt;1</b>	<1	3
Nickel	ppm	ASTM D5185(m)	>4	<b>0</b>	<1	<1
Titanium	ppm	ASTM D5185(m)		<b>0</b>	0	<1
Silver	ppm	ASTM D5185(m)	>3	<b>0</b>	<1	0
Aluminum	ppm	ASTM D5185(m)	>20	<b>2</b>	2	7
Lead	ppm	ASTM D5185(m)	>40	<b>&lt;1</b>	2	13
Copper	ppm	ASTM D5185(m)	>330	<b>2</b>	2	6
Tin	ppm	ASTM D5185(m)	>15	<b>0</b>	<1	1
Vanadium	ppm	ASTM D5185(m)		<b>0</b>	0	0

**CONTAMINATION**

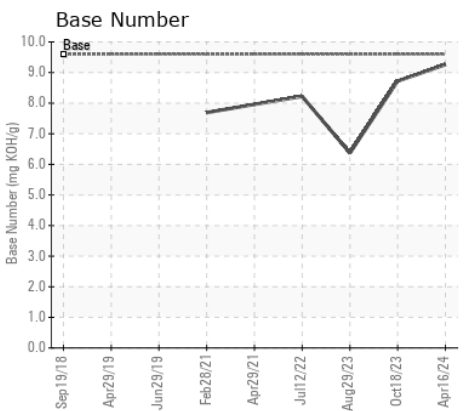
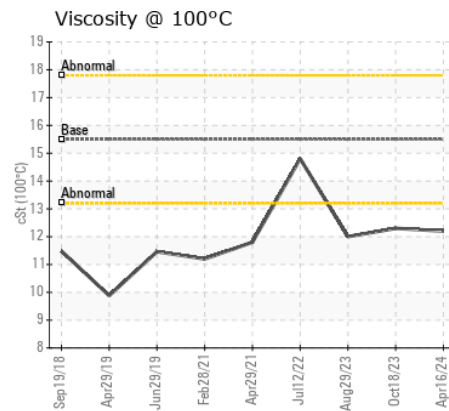
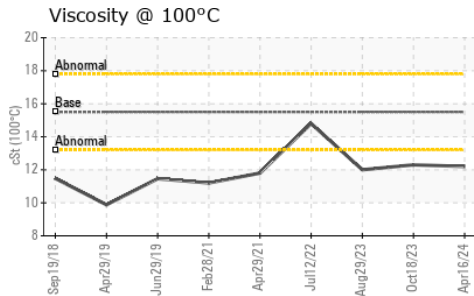
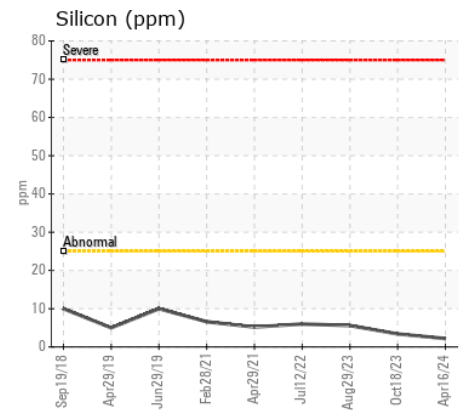
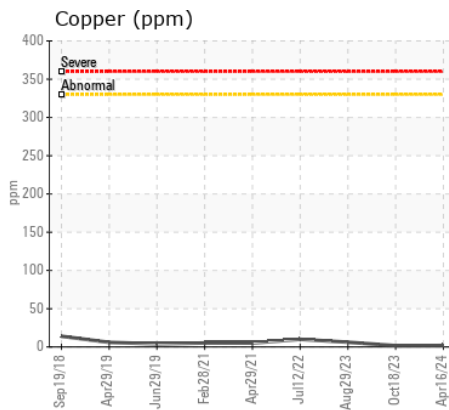
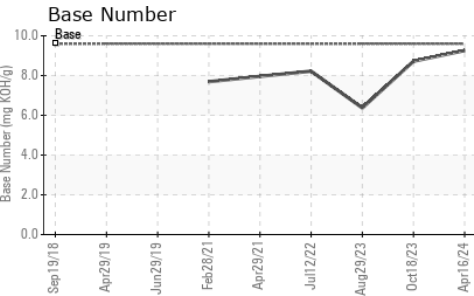
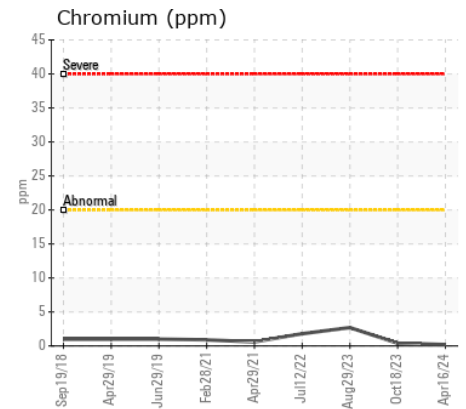
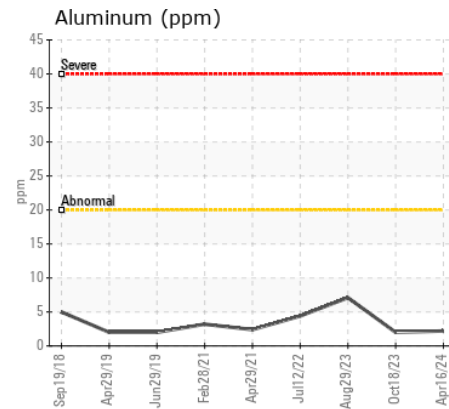
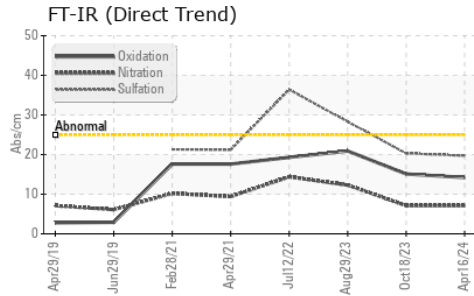
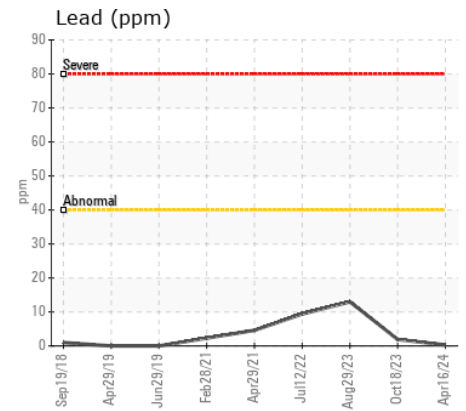
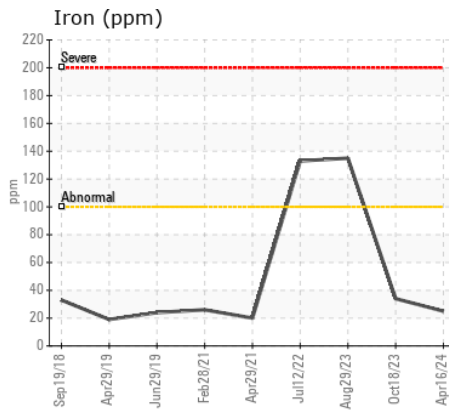
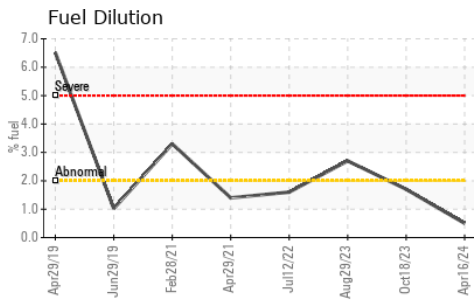
Fuel content negligible. There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185(m)	>25	<b>2</b>	3	6
Potassium	ppm	ASTM D5185(m)	>20	<b>1</b>	1	6
Fuel	%	ASTM D7593*	>2.0	<b>0.5</b>	1.7	▲ 2.7
Water		WC Method	>0.2	<b>NEG</b>	NEG	NEG
Glycol		WC Method		<b>NEG</b>	NEG	0.0
Soot %	%	ASTM D7844*	>3	<b>0.7</b>	0.8	2.4
Nitration	Abs/cm	ASTM D7624*	>20	<b>7.1</b>	7.1	12.3
Sulfation	Abs/.1mm	ASTM D7415*	>30	<b>19.7</b>	20.3	28.3
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>26</b>	29	● 204
Boron	ppm	ASTM D5185(m)	1	<b>3</b>	4	2
Barium	ppm	ASTM D5185(m)	1	<b>0</b>	0	0
Molybdenum	ppm	ASTM D5185(m)	60	<b>60</b>	59	61
Manganese	ppm	ASTM D5185(m)	1	<b>&lt;1</b>	0	1
Magnesium	ppm	ASTM D5185(m)	1010	<b>962</b>	942	889
Calcium	ppm	ASTM D5185(m)	1070	<b>1062</b>	1076	961
Phosphorus	ppm	ASTM D5185(m)	1150	<b>996</b>	1011	945
Zinc	ppm	ASTM D5185(m)	1270	<b>1169</b>	1182	1114
Sulfur	ppm	ASTM D5185(m)	2060	<b>2461</b>	2518	2093
Oxidation	Abs/.1mm	ASTM D7414*	>25	<b>14.2</b>	15.1	20.9
Base Number (BN)	mg KOH/g	ASTM D2896*	9.6	<b>9.26</b>	8.72	6.37
Visc @ 100°C	cSt	ASTM D7279(m)	15.5	<b>12.2</b>	12.3	▲ 12.0



ISO 17025:2017  
Accredited  
Laboratory

**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9  
**Sample No.** : GFL0117308  
**Lab Number** : 02630893  
**Unique Number** : 5772046  
**Test Package** : MOB 2 ( Additional Tests: FUELDILUTION, PercentFuel )

**GFL Environmental - 550 - Rocky View County**  
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 Rocky View County, AB  
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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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