



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

Machine Id  
**4494**  
 Component  
**Front Diesel Engine**  
 Fluid  
**PETRO CANADA DURON XL SYN BLEND 15W40 (37 LTR)**

**RECOMMENDATION**

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>GFL0112447</b>	GFL0099590	GFL0091644
Sample Date		Client Info		<b>20 Jun 2024</b>	05 Dec 2023	02 Oct 2023
Machine Age	kms	Client Info		<b>830734</b>	806664	791223
Oil Age	kms	Client Info		<b>0</b>	0	0
Filter Age	kms	Client Info		<b>0</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	NORMAL

**WEAR**

All component wear rates are normal.

Iron	ppm	ASTM D5185(m)	>100	<b>23</b>	15	21
Chromium	ppm	ASTM D5185(m)	>20	<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)	>2	<b>0</b>	0	<1
Aluminum	ppm	ASTM D5185(m)	>25	<b>4</b>	3	5
Lead	ppm	ASTM D5185(m)	>40	<b>3</b>	2	4
Copper	ppm	ASTM D5185(m)	>330	<b>3</b>	2	2
Tin	ppm	ASTM D5185(m)	>15	<b>&lt;1</b>	0	<1
Vanadium	ppm	ASTM D5185(m)		<b>0</b>	0	0

**CONTAMINATION**

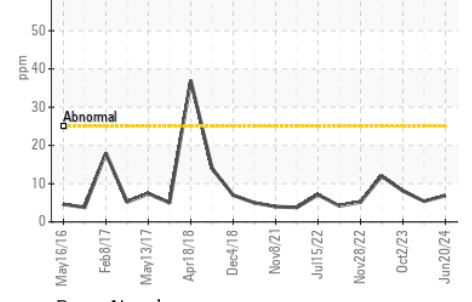
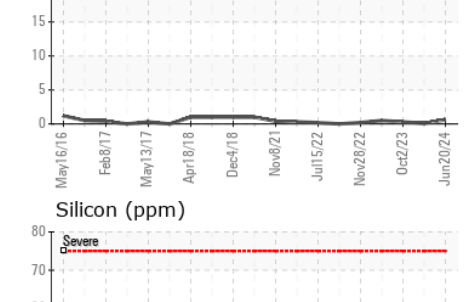
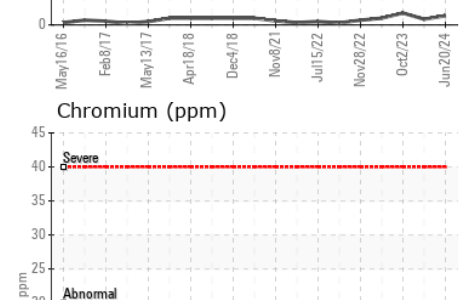
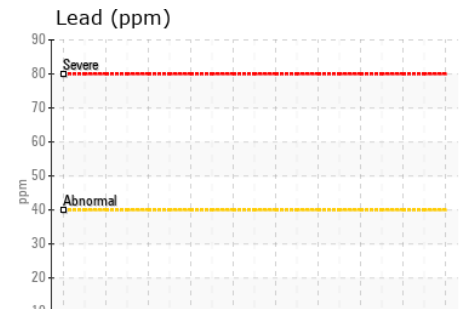
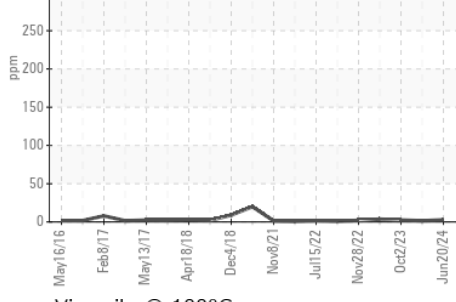
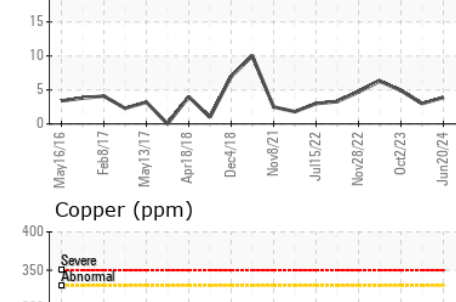
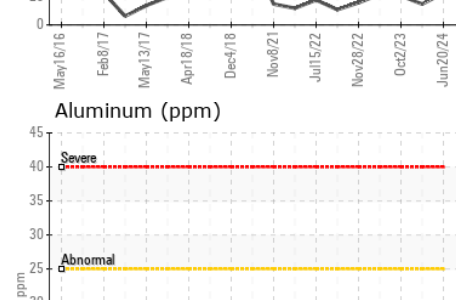
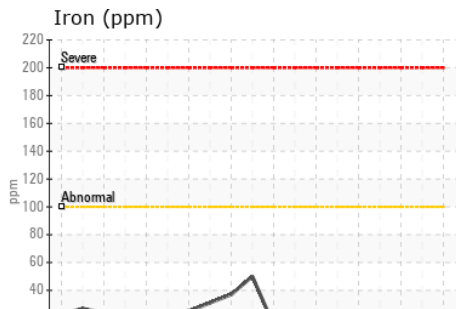
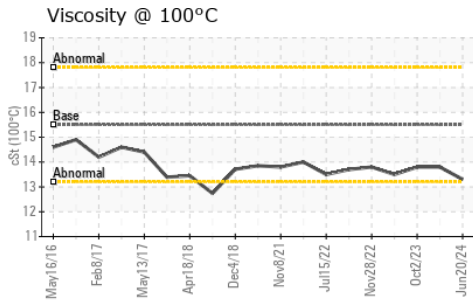
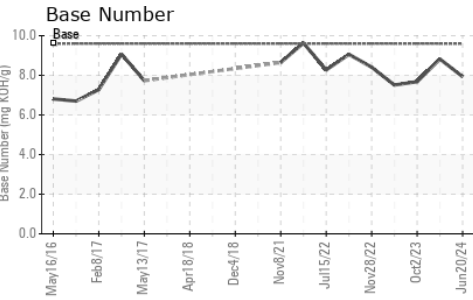
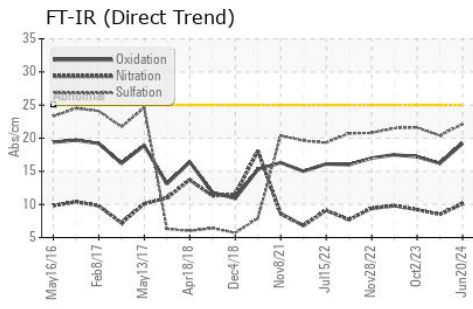
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185(m)	>25	<b>7</b>	5	8
Potassium	ppm	ASTM D5185(m)	>20	<b>3</b>	2	4
Fuel		WC Method	>6.0	<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>0.5</b>	0.9	1
Nitration	Abs/cm	ASTM D7624*	>20	<b>10.1</b>	8.5	9.2
Sulfation	Abs/.1mm	ASTM D7415*	>30	<b>22.1</b>	20.4	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>5</b>	4	6
Boron	ppm	ASTM D5185(m)	1	<b>3</b>	2	2
Barium	ppm	ASTM D5185(m)	1	<b>0</b>	0	<1
Molybdenum	ppm	ASTM D5185(m)	60	<b>57</b>	57	60
Manganese	ppm	ASTM D5185(m)	1	<b>&lt;1</b>	0	0
Magnesium	ppm	ASTM D5185(m)	1010	<b>918</b>	911	960
Calcium	ppm	ASTM D5185(m)	1070	<b>1028</b>	1010	1048
Phosphorus	ppm	ASTM D5185(m)	1150	<b>951</b>	958	1011
Zinc	ppm	ASTM D5185(m)	1270	<b>1162</b>	1161	1210
Sulfur	ppm	ASTM D5185(m)	2060	<b>2306</b>	2439	2528
Oxidation	Abs/.1mm	ASTM D7414*	>25	<b>19.2</b>	16.2	17.2
Base Number (BN)	mg KOH/g	ASTM D2896*	9.6	<b>7.93</b>	8.82	7.68
Visc @ 100°C	cSt	ASTM D7279(m)	15.5	<b>13.3</b>	13.8	13.8



**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9  
**Sample No.** : GFL0112447  
**Lab Number** : 02643978  
**Unique Number** : 5801517  
**Test Package** : MOB 2

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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.