



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

Machine Id  
**4518**  
 Component  
**Diesel Engine**  
 Fluid  
**PETRO CANADA DURON SAE 15W40 (--- GAL)**

**RECOMMENDATION**

The oil change at the time of sampling has been noted. Resample at the next service interval to monitor. Please specify the component make and model with your next sample.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>GFL0112495</b>	GFL0102625	GFL0101732
Sample Date		Client Info		<b>14 May 2024</b>	26 Jan 2024	24 Nov 2023
Machine Age	hrs	Client Info		<b>32154</b>	32098	31766
Oil Age	hrs	Client Info		<b>0</b>	332	0
Filter Age	hrs	Client Info		<b>0</b>	332	0
Oil Changed		Client Info		<b>Changed</b>	Changed	Changed
Filter Changed		Client Info		<b>Changed</b>	Changed	Changed
Sample Status				<b>ABNORMAL</b>	NORMAL	NORMAL

**WEAR**

All component wear rates are normal.

Iron	ppm	ASTM D5185(m)	>100	<b>14</b>	9	20
Chromium	ppm	ASTM D5185(m)	>20	<b>&lt;1</b>	<1	<1
Nickel	ppm	ASTM D5185(m)	>4	<b>0</b>	<1	<1
Titanium	ppm	ASTM D5185(m)		<b>0</b>	0	0
Silver	ppm	ASTM D5185(m)	>3	<b>0</b>	0	0
Aluminum	ppm	ASTM D5185(m)	>20	<b>1</b>	2	2
Lead	ppm	ASTM D5185(m)	>40	<b>&lt;1</b>	2	4
Copper	ppm	ASTM D5185(m)	>330	<b>&lt;1</b>	<1	1
Tin	ppm	ASTM D5185(m)	>15	<b>0</b>	<1	<1
Vanadium	ppm	ASTM D5185(m)		<b>0</b>	0	0

**CONTAMINATION**

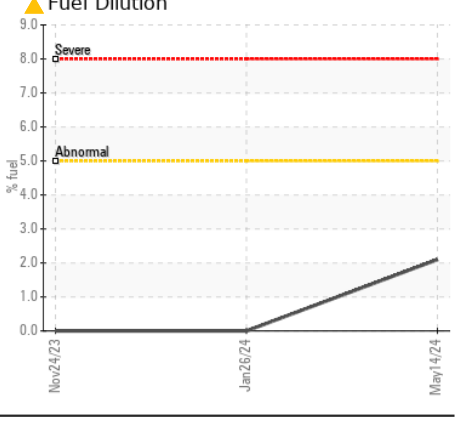
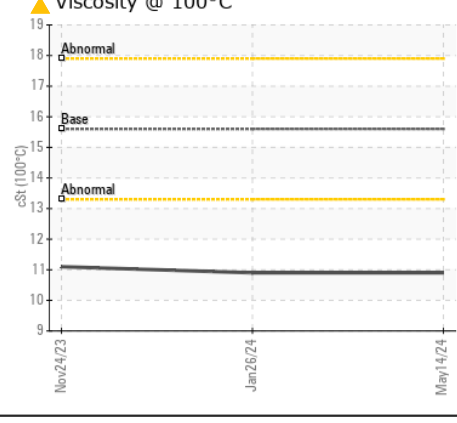
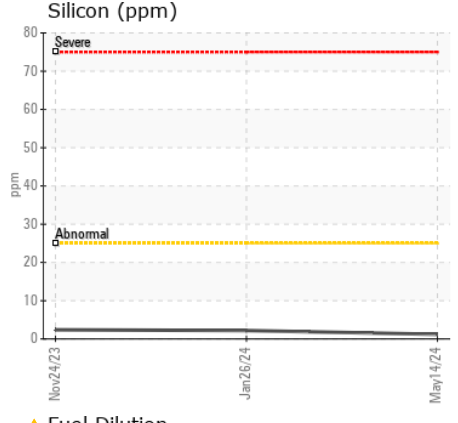
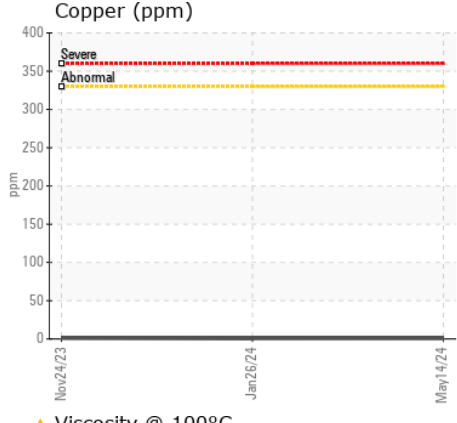
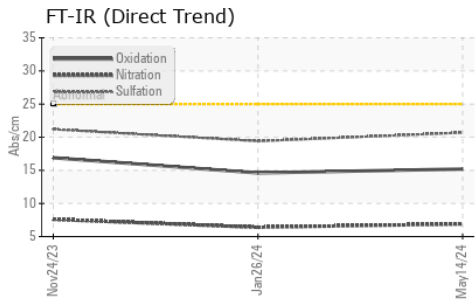
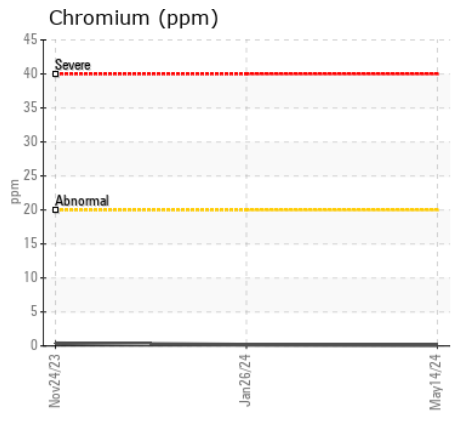
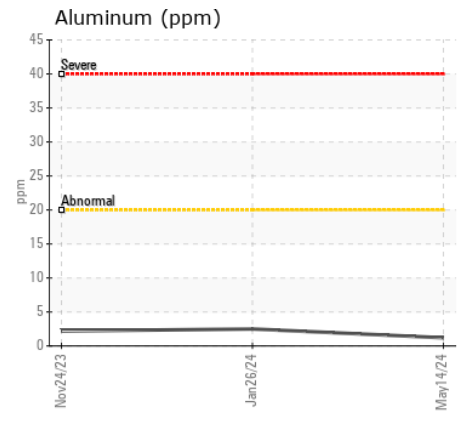
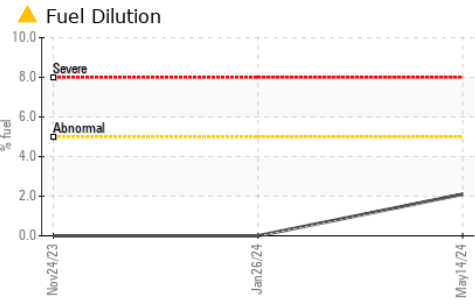
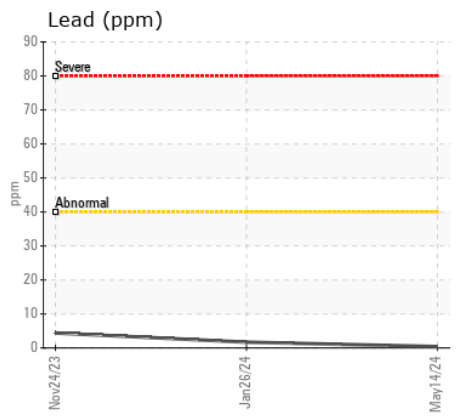
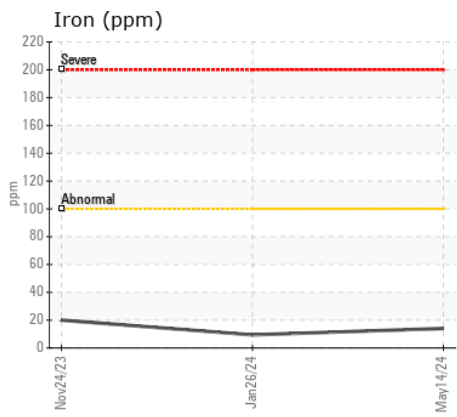
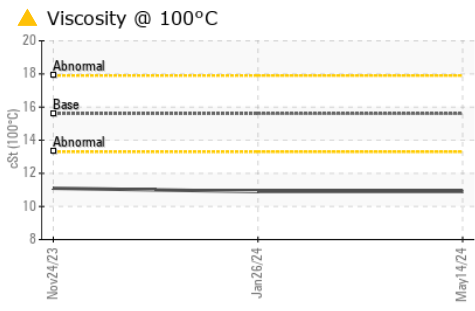
Light fuel dilution occurring.

Silicon	ppm	ASTM D5185(m)	>25	<b>1</b>	2	2
Potassium	ppm	ASTM D5185(m)	>20	<b>2</b>	2	1
Fuel	%	ASTM D7593*	>5	<b>▲ 2.1</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>0.8</b>	0.3	0.7
Nitration	Abs/cm	ASTM D7624*	>20	<b>6.9</b>	6.4	7.6
Sulfation	Abs/.1mm	ASTM D7415*	>30	<b>20.7</b>	19.4	21.2
Emulsified Water	scalar	Visual*	>0.2	<b>NEG</b>	NEG	NEG

**FLUID CONDITION**

Fuel is present in the oil and is lowering the viscosity. The condition of the oil is acceptable for the time in service.

Sodium	ppm	ASTM D5185(m)		<b>&lt;1</b>	<1	2
Boron	ppm	ASTM D5185(m)	1	<b>5</b>	2	2
Barium	ppm	ASTM D5185(m)	1	<b>0</b>	0	0
Molybdenum	ppm	ASTM D5185(m)	60	<b>55</b>	57	60
Manganese	ppm	ASTM D5185(m)	1	<b>0</b>	0	0
Magnesium	ppm	ASTM D5185(m)	1010	<b>904</b>	921	964
Calcium	ppm	ASTM D5185(m)	1070	<b>995</b>	1033	1044
Phosphorus	ppm	ASTM D5185(m)	1150	<b>913</b>	973	980
Zinc	ppm	ASTM D5185(m)	1270	<b>1093</b>	1123	1167
Sulfur	ppm	ASTM D5185(m)	2060	<b>2325</b>	2647	2474
Oxidation	Abs/.1mm	ASTM D7414*	>25	<b>15.2</b>	14.6	16.9
Visc @ 100°C	cSt	ASTM D7279(m)	15.6	<b>▲ 10.9</b>	10.9	11.1



**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9  
**Sample No.** : GFL0112495 **Received** : 23 May 2024  
**Lab Number** : 02637116 **Tested** : 24 May 2024  
**Unique Number** : 5786278 **Diagnosed** : 24 May 2024 - Wes Davis  
**Test Package** : MOB 1 ( Additional Tests: FuelDilution, PercentFuel )

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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.