



Machine Id  
**731078**  
Component  
**Natural Gas Engine**  
Fluid  
**PETRO CANADA DURON GEO LD 15W40 (--- LTR)**

**RECOMMENDATION**

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>GFL0117132</b>	GFL0097757	GFL0081588
Sample Date		Client Info		<b>07 May 2024</b>	16 Oct 2023	29 May 2023
Machine Age	hrs	Client Info		<b>5882</b>	4775	3989
Oil Age	hrs	Client Info		<b>1200</b>	1200	1200
Filter Age	hrs	Client Info		<b>1200</b>	1200	1200
Oil Changed		Client Info		<b>Changed</b>	Changed	Changed
Filter Changed		Client Info		<b>Changed</b>	Changed	Changed
Sample Status				<b>NORMAL</b>	NORMAL	NORMAL

**WEAR**

All component wear rates are normal.

Iron	ppm	ASTM D5185(m)	>50	<b>12</b>	11	19
Chromium	ppm	ASTM D5185(m)	>4	<b>1</b>	1	1
Nickel	ppm	ASTM D5185(m)	>2	<b>&lt;1</b>	<1	<1
Titanium	ppm	ASTM D5185(m)		<b>&lt;1</b>	0	<1
Silver	ppm	ASTM D5185(m)	>3	<b>0</b>	<1	0
Aluminum	ppm	ASTM D5185(m)	>9	<b>2</b>	2	2
Lead	ppm	ASTM D5185(m)	>30	<b>1</b>	2	2
Copper	ppm	ASTM D5185(m)	>35	<b>2</b>	1	2
Tin	ppm	ASTM D5185(m)	>4	<b>0</b>	<1	<1
Vanadium	ppm	ASTM D5185(m)		<b>0</b>	0	0

**CONTAMINATION**

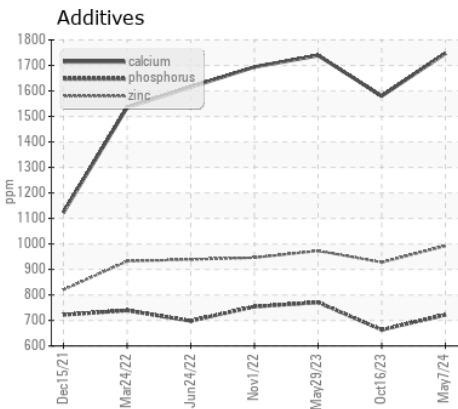
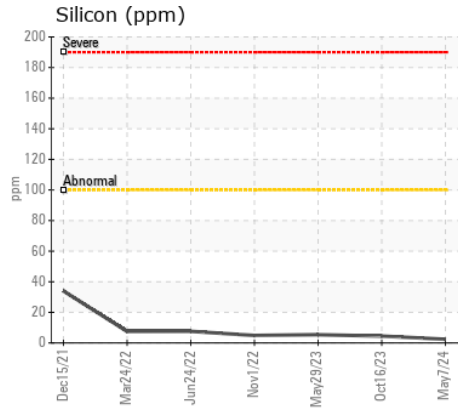
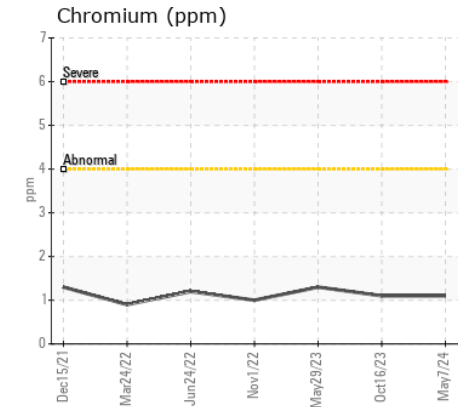
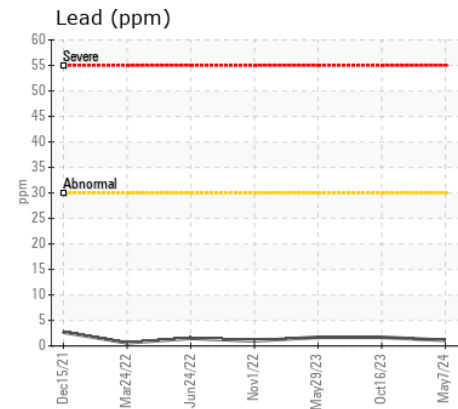
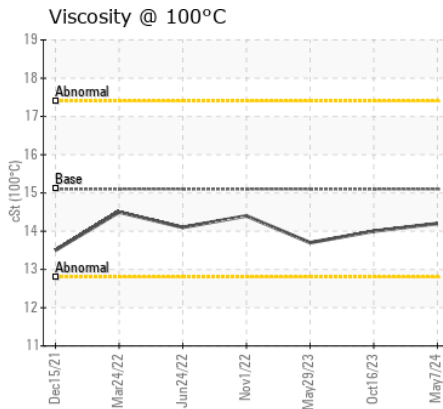
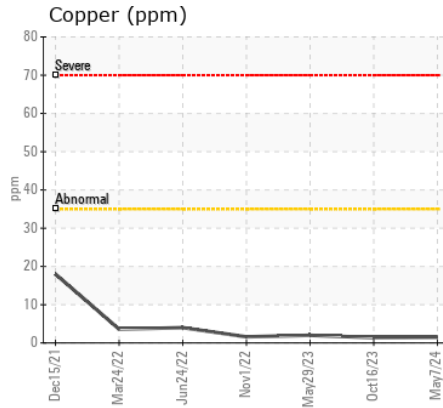
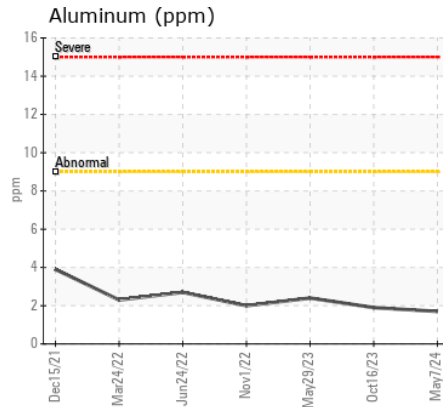
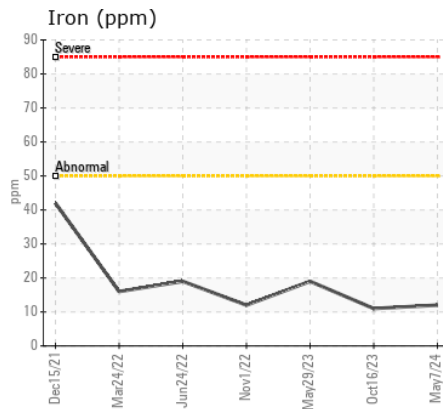
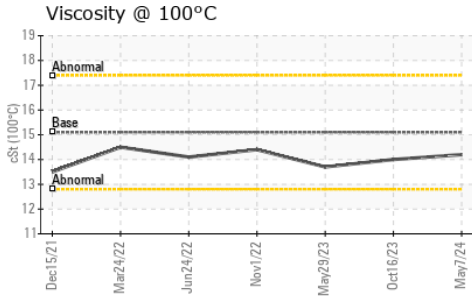
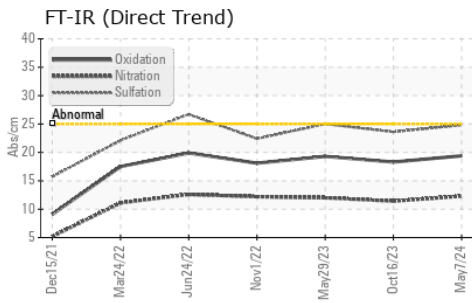
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185(m)	>+100	<b>2</b>	4	5
Potassium	ppm	ASTM D5185(m)	>20	<b>&lt;1</b>	0	2
Water		WC Method	>0.1	<b>NEG</b>	NEG	NEG
Soot %	%	ASTM D7844*		<b>0</b>	0	0
Nitration	Abs/cm	ASTM D7624*	>20	<b>12.3</b>	11.4	12.0
Sulfation	Abs/.1mm	ASTM D7415*	>30	<b>24.8</b>	23.6	25.0
Emulsified Water	scalar	Visual*	>0.1	<b>NEG</b>	NEG	NEG

**FLUID CONDITION**

The condition of the oil is acceptable for the time in service.

Sodium	ppm	ASTM D5185(m)		<b>8</b>	8	11
Boron	ppm	ASTM D5185(m)	50	<b>7</b>	6	7
Barium	ppm	ASTM D5185(m)	5	<b>&lt;1</b>	<1	0
Molybdenum	ppm	ASTM D5185(m)	50	<b>56</b>	58	62
Manganese	ppm	ASTM D5185(m)	0	<b>&lt;1</b>	0	1
Magnesium	ppm	ASTM D5185(m)	560	<b>628</b>	580	612
Calcium	ppm	ASTM D5185(m)	1510	<b>1747</b>	1580	1739
Phosphorus	ppm	ASTM D5185(m)	780	<b>722</b>	663	771
Zinc	ppm	ASTM D5185(m)	870	<b>992</b>	928	973
Sulfur	ppm	ASTM D5185(m)	2040	<b>2112</b>	2051	2177
Oxidation	Abs/.1mm	ASTM D7414*	>25	<b>19.4</b>	18.3	19.3
Visc @ 100°C	cSt	ASTM D7279(m)	15.1	<b>14.2</b>	14.0	13.7



**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9  
**Sample No.** : GFL0117132  
**Lab Number** : 02634020  
**Unique Number** : 5775173  
**Test Package** : MOB 1  
**Received** : 08 May 2024  
**Tested** : 08 May 2024  
**Diagnosed** : 08 May 2024 - Wes Davis

**GFL Environmental - 209 - Hamilton**  
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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.