



Machine Id  
**731065**  
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>GFL0110253</b>	GFL0064339	GFL0054897
Sample Date		Client Info		<b>05 Mar 2024</b>	16 Mar 2023	02 Nov 2022
Machine Age	hrs	Client Info		<b>4962</b>	2995	2242
Oil Age	hrs	Client Info		<b>1200</b>	1000	1000
Filter Age	hrs	Client Info		<b>1200</b>	1000	1000
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>10</b>	10	15
Chromium	ppm	ASTM D5185(m)	>4	<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>	<1	<1
Silver	ppm	ASTM D5185(m)	>3	<b>0</b>	0	0
Aluminum	ppm	ASTM D5185(m)	>9	<b>2</b>	2	4
Lead	ppm	ASTM D5185(m)	>30	<b>5</b>	<1	1
Copper	ppm	ASTM D5185(m)	>35	<b>2</b>	2	2
Tin	ppm	ASTM D5185(m)	>4	<b>&lt;1</b>	<1	1
Vanadium	ppm	ASTM D5185(m)		<b>0</b>	0	0

### CONTAMINATION

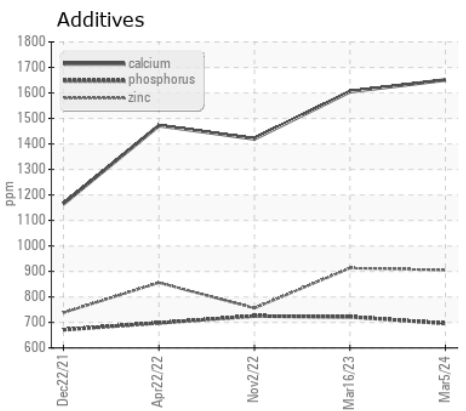
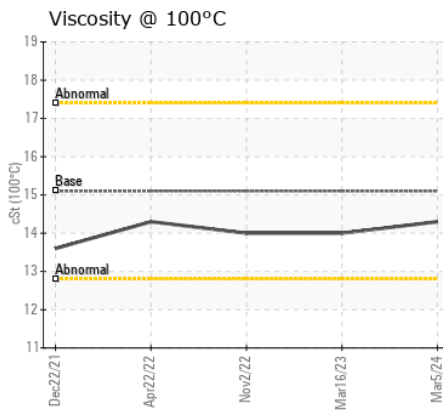
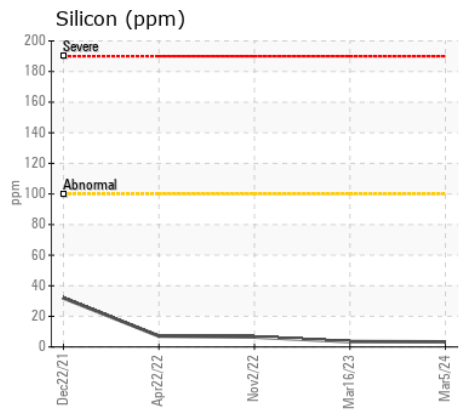
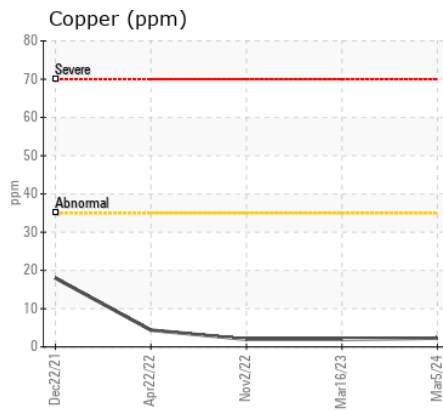
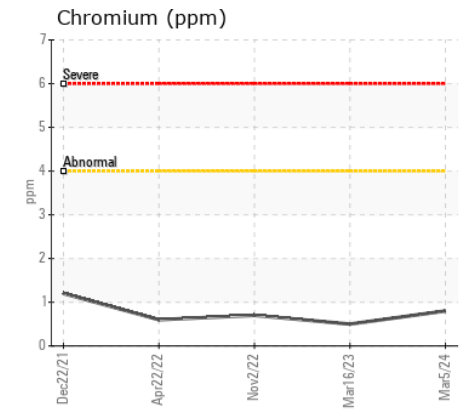
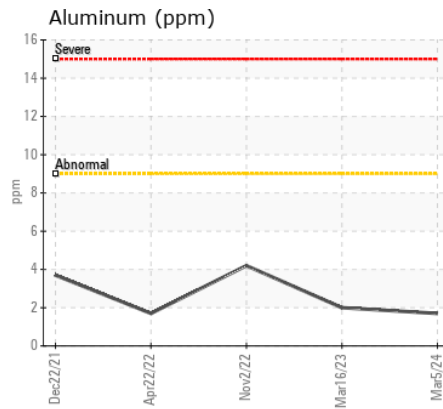
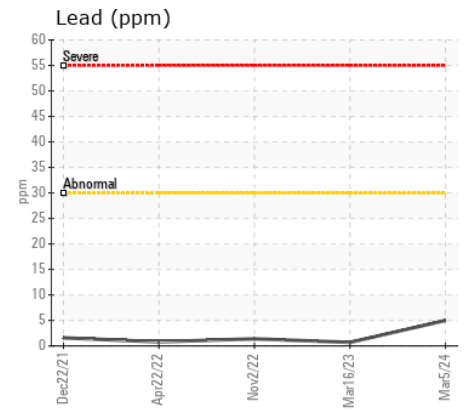
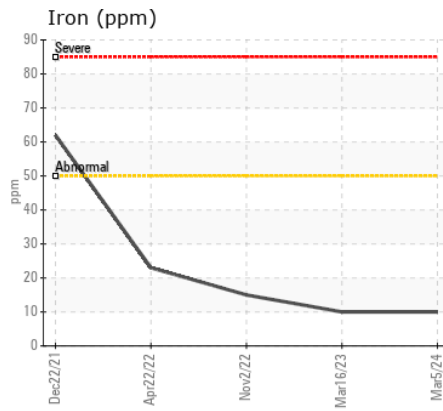
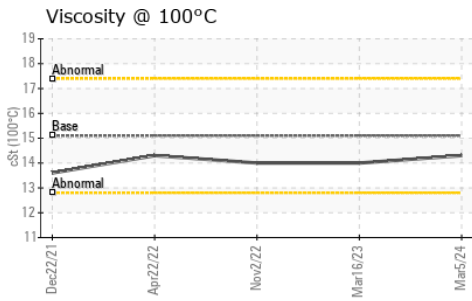
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185(m)	>+100	<b>3</b>	4	6
Potassium	ppm	ASTM D5185(m)	>20	<b>1</b>	<1	0
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>11.6</b>	10.2	9.4
Sulfation	Abs/.1mm	ASTM D7415*	>30	<b>24.5</b>	23.3	22.1
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>9</b>	8	<1
Boron	ppm	ASTM D5185(m)	50	<b>6</b>	7	10
Barium	ppm	ASTM D5185(m)	5	<b>0</b>	0	0
Molybdenum	ppm	ASTM D5185(m)	50	<b>52</b>	56	105
Manganese	ppm	ASTM D5185(m)	0	<b>0</b>	<1	1
Magnesium	ppm	ASTM D5185(m)	560	<b>570</b>	573	660
Calcium	ppm	ASTM D5185(m)	1510	<b>1651</b>	1605	1420
Phosphorus	ppm	ASTM D5185(m)	780	<b>696</b>	722	725
Zinc	ppm	ASTM D5185(m)	870	<b>905</b>	913	756
Sulfur	ppm	ASTM D5185(m)	2040	<b>2108</b>	2057	2262
Oxidation	Abs/.1mm	ASTM D7414*	>25	<b>20.1</b>	16.4	16.4
Visc @ 100°C	cSt	ASTM D7279(m)	15.1	<b>14.3</b>	14.0	14.0



**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9  
**Sample No.** : GFL0110253  
**Lab Number** : 02620510  
**Unique Number** : 5737620  
**Test Package** : MOB 1  
**Received** : 07 Mar 2024  
**Tested** : 07 Mar 2024  
**Diagnosed** : 07 Mar 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.