



Machine Id  
**719000**  
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>GFL0102603</b>	GFL0090628	GFL0072827
Sample Date		Client Info		<b>17 Feb 2024</b>	12 Aug 2023	05 Mar 2023
Machine Age	hrs	Client Info		<b>9862</b>	14280	7796
Oil Age	hrs	Client Info		<b>0</b>	0	0
Filter Age	hrs	Client Info		<b>0</b>	0	0
Oil Changed		Client Info		<b>N/A</b>	N/A	N/A
Filter Changed		Client Info		<b>N/A</b>	N/A	N/A
Sample Status				<b>NORMAL</b>	NORMAL	NORMAL

**WEAR**

All component wear rates are normal.

Iron	ppm	ASTM D5185(m)	>50	<b>29</b>	20	18
Chromium	ppm	ASTM D5185(m)	>4	<b>&lt;1</b>	2	2
Nickel	ppm	ASTM D5185(m)	>2	<b>&lt;1</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)	>9	<b>2</b>	2	2
Lead	ppm	ASTM D5185(m)	>30	<b>1</b>	5	1
Copper	ppm	ASTM D5185(m)	>35	<b>2</b>	1	1
Tin	ppm	ASTM D5185(m)	>4	<b>&lt;1</b>	<1	<1
Vanadium	ppm	ASTM D5185(m)		<b>0</b>	0	0

**CONTAMINATION**

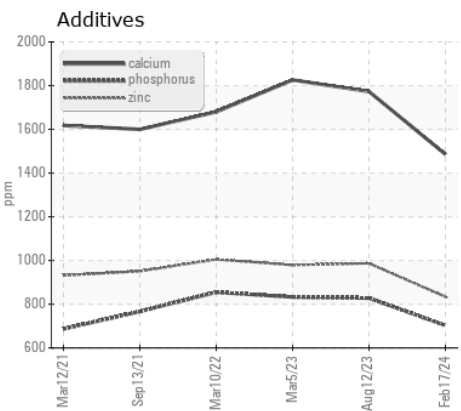
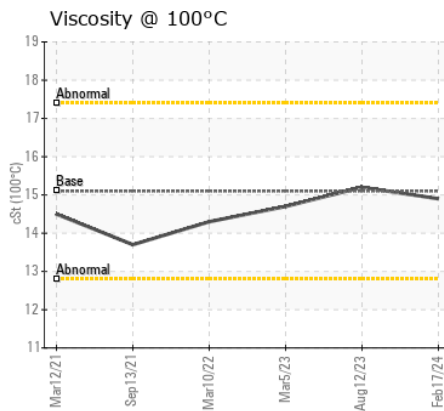
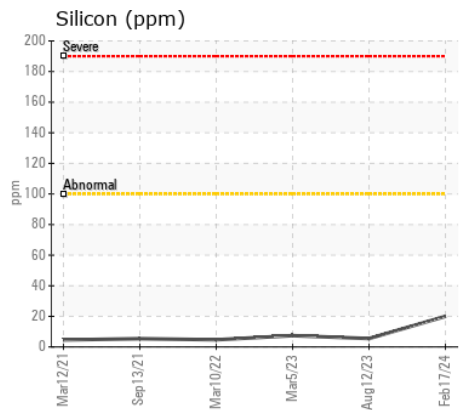
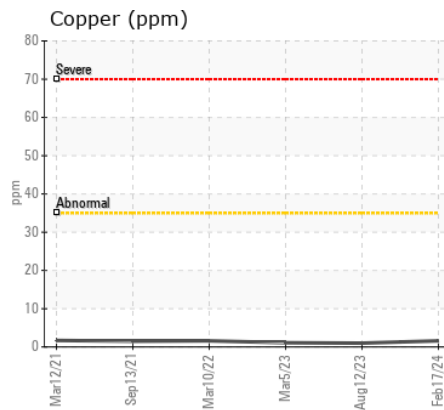
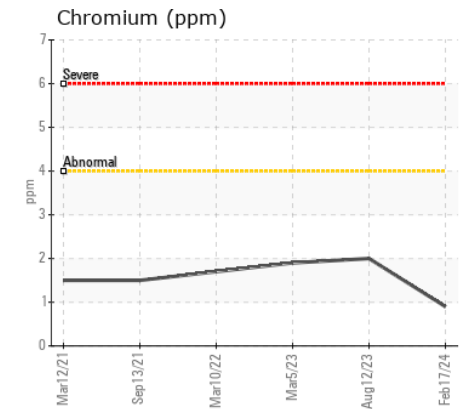
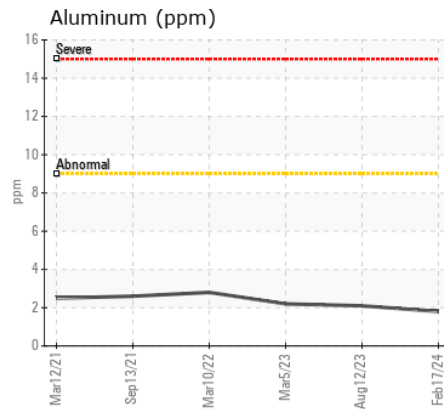
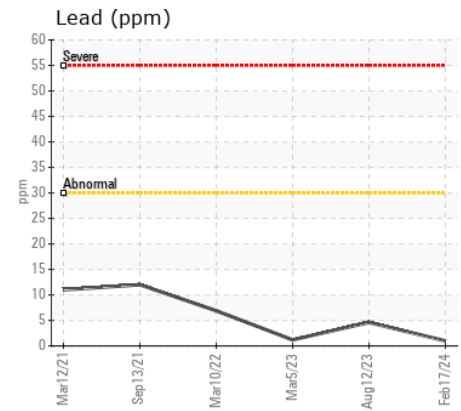
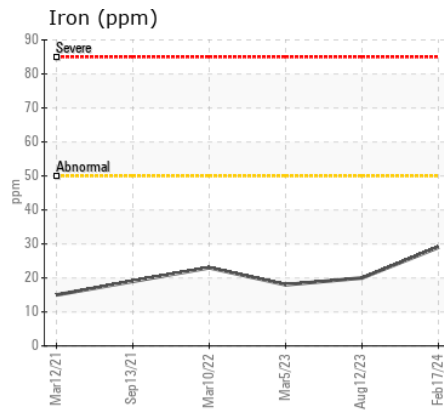
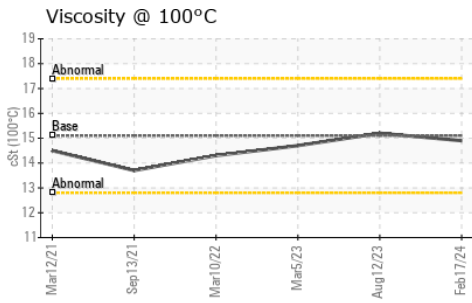
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185(m)	>+100	<b>20</b>	6	7
Potassium	ppm	ASTM D5185(m)	>20	<b>&lt;1</b>	<1	<1
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>10.0</b>	12.5	6.5
Sulfation	Abs/.1mm	ASTM D7415*	>30	<b>19.6</b>	27.9	18.0
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>3</b>	10	10
Boron	ppm	ASTM D5185(m)	50	<b>14</b>	9	9
Barium	ppm	ASTM D5185(m)	5	<b>19</b>	0	0
Molybdenum	ppm	ASTM D5185(m)	50	<b>49</b>	58	58
Manganese	ppm	ASTM D5185(m)	0	<b>2</b>	<1	<1
Magnesium	ppm	ASTM D5185(m)	560	<b>508</b>	627	632
Calcium	ppm	ASTM D5185(m)	1510	<b>1486</b>	1773	1826
Phosphorus	ppm	ASTM D5185(m)	780	<b>703</b>	828	833
Zinc	ppm	ASTM D5185(m)	870	<b>834</b>	987	979
Sulfur	ppm	ASTM D5185(m)	2040	<b>2035</b>	2073	2180
Oxidation	Abs/.1mm	ASTM D7414*	>25	<b>16.7</b>	22.5	9.5
Visc @ 100°C	cSt	ASTM D7279(m)	15.1	<b>14.9</b>	15.2	14.7



ISO 17025:2017  
Accredited  
Laboratory

**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9  
**Sample No.** : GFL0102603  
**Lab Number** : 02617612  
**Unique Number** : 5734722  
**Test Package** : MOB 1

**Received** : 23 Feb 2024  
**Tested** : 23 Feb 2024  
**Diagnosed** : 23 Feb 2024 - Wes Davis

**GFL Environmental - 554 - Edmonton SW**  
 8409 -15th Street NW  
 Edmonton, AB  
 CA T6P 0B8  
 Contact: Tim Greig  
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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.