



Machine Id  
**830012**  
Component  
**Natural Gas Engine**  
Fluid  
**PETRO CANADA DURON GEO LD 15W40 (--- GAL)**

### RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>GFL0102636</b>	GFL0064105	GFL
Sample Date		Client Info		<b>08 Jan 2024</b>	16 Feb 2023	20 Nov 2022
Machine Age	hrs	Client Info		<b>9150</b>	0	6536
Oil Age	hrs	Client Info		<b>0</b>	7037	0
Filter Age	hrs	Client Info		<b>0</b>	0	0
Oil Changed		Client Info		<b>Changed</b>	N/A	N/A
Filter Changed		Client Info		<b>Changed</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>12</b>	12	22
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	3
Lead	ppm	ASTM D5185(m)	>30	<b>&lt;1</b>	2	7
Copper	ppm	ASTM D5185(m)	>35	<b>1</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

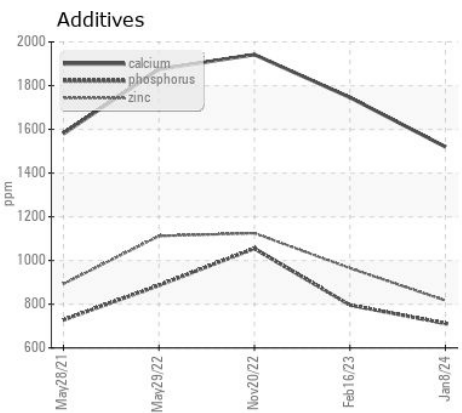
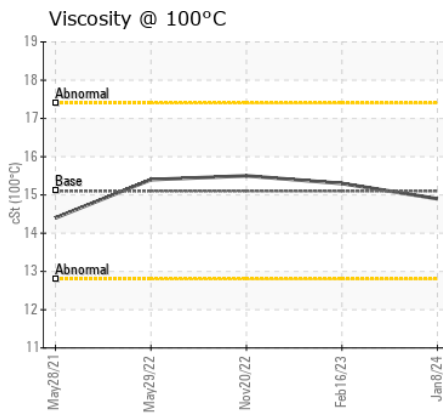
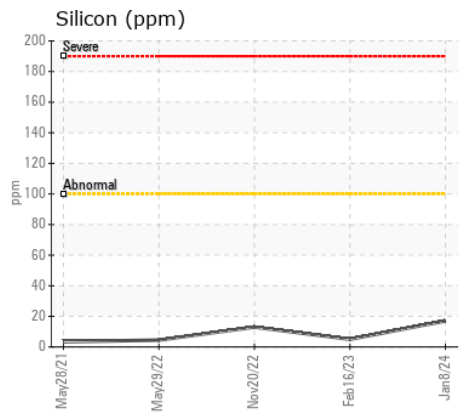
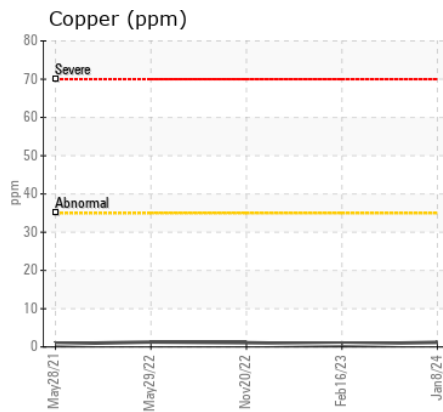
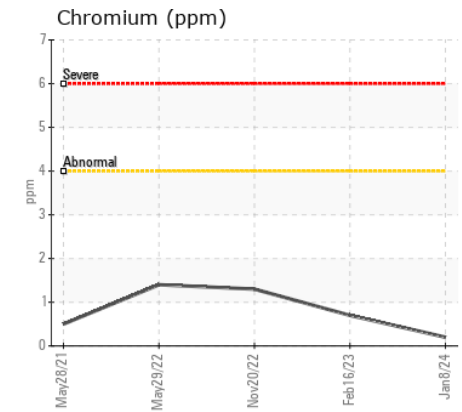
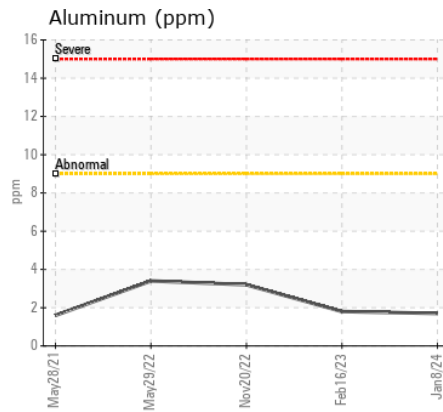
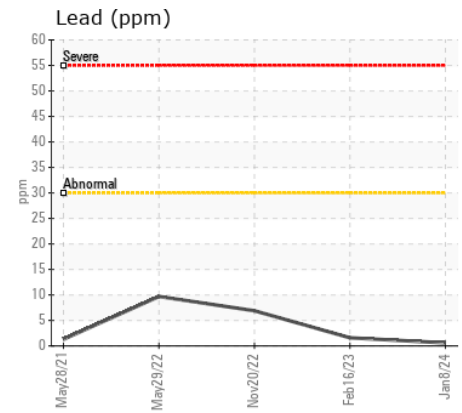
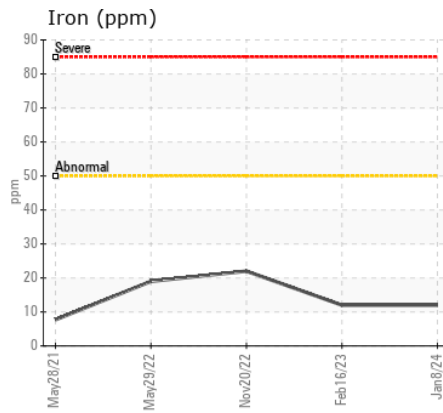
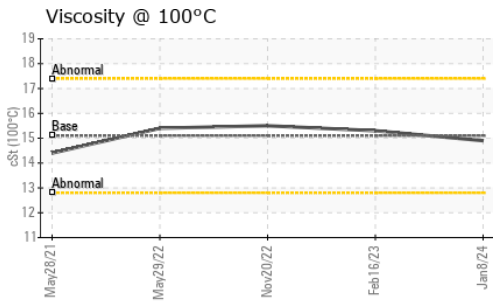
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185(m)	>+100	<b>17</b>	5	13
Potassium	ppm	ASTM D5185(m)	>20	<b>1</b>	0	<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>7.8</b>	6.3	14.3
Sulfation	Abs/.1mm	ASTM D7415*	>30	<b>19.3</b>	17.3	27.6
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>7</b>	13	10
Boron	ppm	ASTM D5185(m)	50	<b>23</b>	13	12
Barium	ppm	ASTM D5185(m)	5	<b>3</b>	0	0
Molybdenum	ppm	ASTM D5185(m)	50	<b>48</b>	55	61
Manganese	ppm	ASTM D5185(m)	0	<b>2</b>	<1	1
Magnesium	ppm	ASTM D5185(m)	560	<b>537</b>	586	731
Calcium	ppm	ASTM D5185(m)	1510	<b>1520</b>	1746	1942
Phosphorus	ppm	ASTM D5185(m)	780	<b>712</b>	796	1055
Zinc	ppm	ASTM D5185(m)	870	<b>817</b>	965	1125
Sulfur	ppm	ASTM D5185(m)	2040	<b>2051</b>	2060	2182
Oxidation	Abs/.1mm	ASTM D7414*	>25	<b>16.5</b>	10.3	23.0
Visc @ 100°C	cSt	ASTM D7279(m)	15.1	<b>14.9</b>	15.3	15.5



**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 GFL Environmental - 554 - Edmonton SW  
**Sample No.** : GFL0102636 **Received** : 22 Jan 2024  
**Lab Number** : 02610191 **Diagnosed** : 22 Jan 2024  
**Unique Number** : 5711277 **Diagnostician** : Wes Davis  
**Test Package** : MOB 1

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.

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