



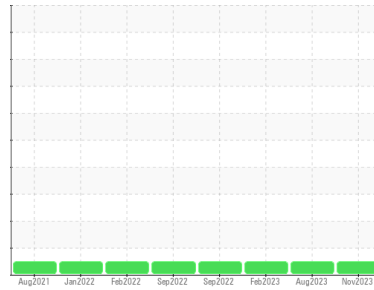
# OIL ANALYSIS REPORT

Sample Rating Trend

**NORMAL**



Machine Id  
**830004**  
 Component  
**Natural Gas Engine**  
 Fluid  
**PETRO CANADA DURON GEO LD 15W40 (--- GAL)**



## DIAGNOSIS

### Recommendation

Resample at the next service interval to monitor.

### Wear

All component wear rates are normal.

### Contamination

There is no indication of any contamination in the oil.

### Fluid Condition

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

## SAMPLE INFORMATION

	method	limit/base	current	history1	history2
Sample Number	Client Info		<b>GFL0097611</b>	GFL0090627	GFL0064063
Sample Date	Client Info		<b>12 Nov 2023</b>	20 Aug 2023	16 Feb 2023
Machine Age	hrs	Client Info	<b>0</b>	8111	7101
Oil Age	hrs	Client Info	<b>0</b>	0	0
Oil Changed	Client Info		<b>N/A</b>	N/A	N/A
Sample Status			<b>NORMAL</b>	NORMAL	NORMAL

## WEAR METALS

	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185(m) >50	<b>15</b>	22	13
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>&lt;1</b>	0	0
Aluminum	ppm	ASTM D5185(m) >9	<b>2</b>	2	2
Lead	ppm	ASTM D5185(m) >30	<b>&lt;1</b>	<1	<1
Copper	ppm	ASTM D5185(m) >35	<b>2</b>	2	5
Tin	ppm	ASTM D5185(m) >4	<b>&lt;1</b>	<1	0
Antimony	ppm	ASTM D5185(m)	<b>0</b>	0	<1
Vanadium	ppm	ASTM D5185(m)	<b>0</b>	0	0
Beryllium	ppm	ASTM D5185(m)	<b>0</b>	0	0
Cadmium	ppm	ASTM D5185(m)	<b>0</b>	0	0

## ADDITIVES

	method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185(m) 50	<b>14</b>	13	17
Barium	ppm	ASTM D5185(m) 5	<b>&lt;1</b>	3	0
Molybdenum	ppm	ASTM D5185(m) 50	<b>54</b>	53	56
Manganese	ppm	ASTM D5185(m) 0	<b>&lt;1</b>	3	<1
Magnesium	ppm	ASTM D5185(m) 560	<b>560</b>	553	624
Calcium	ppm	ASTM D5185(m) 1510	<b>1671</b>	1595	1731
Phosphorus	ppm	ASTM D5185(m) 780	<b>701</b>	765	873
Zinc	ppm	ASTM D5185(m) 870	<b>960</b>	892	983
Sulfur	ppm	ASTM D5185(m) 2040	<b>2027</b>	1992	2119
Lithium	ppm	ASTM D5185(m)	<b>&lt;1</b>	<1	<1

## CONTAMINANTS

	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m) >+100	<b>6</b>	17	4
Sodium	ppm	ASTM D5185(m)	<b>7</b>	6	8
Potassium	ppm	ASTM D5185(m) >20	<b>&lt;1</b>	2	<1

## INFRA-RED

	method	limit/base	current	history1	history2
Soot %	%	ASTM D7844*	<b>0</b>	0	0
Nitration	Abs/cm	ASTM D7624*	<b>&gt;20</b>	10.6	11.0
Sulfation	Abs/.1mm	ASTM D7415*	<b>&gt;30</b>	21.3	22.4

## FLUID DEGRADATION

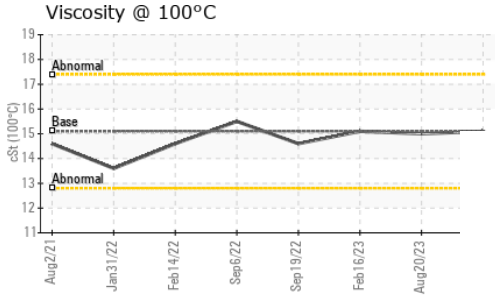
	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	ASTM D7414*	<b>&gt;25</b>	19.5	18.0

## VISUAL

	method	limit/base	current	history1	history2
Emulsified Water	scalar	Visual*	<b>&gt;0.1</b>	<b>NEG</b>	NEG
Free Water	scalar	Visual*	<b>NEG</b>	NEG	NEG

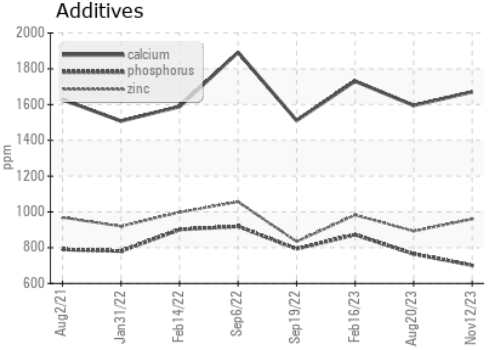
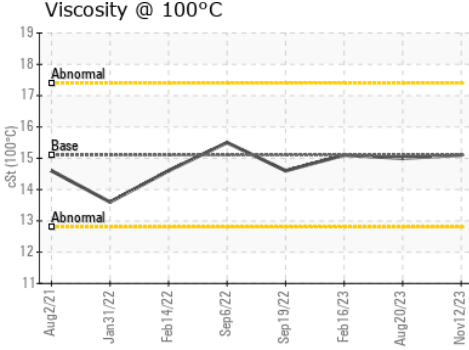
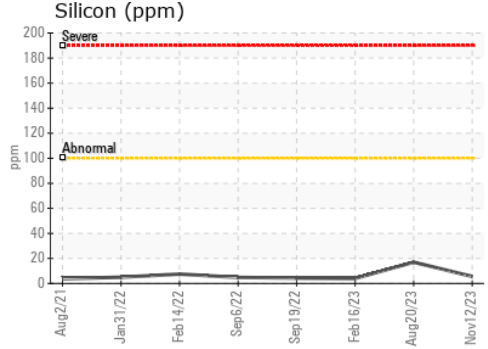
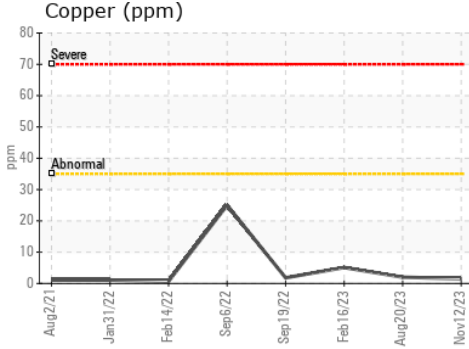
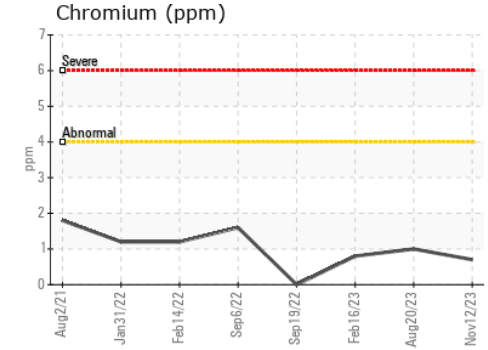
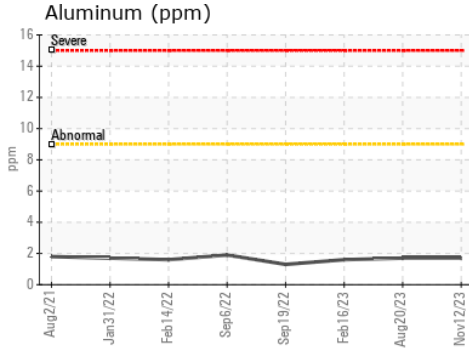
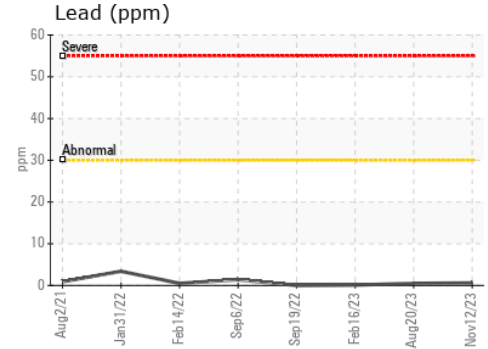
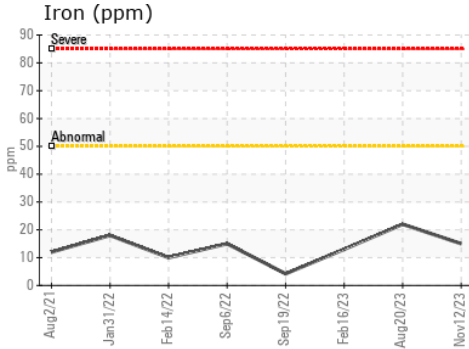


# OIL ANALYSIS REPORT



FLUID PROPERTIES		method	limit/base	current	history1	history2
Visc @ 100°C	cSt	ASTM D7279(m)	15.1	<b>15.1</b>	15.0	15.1

## GRAPHS



ISO 17025:2017  
Accredited  
Laboratory

**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 GFL Environmental - 554 - Edmonton SW  
**Sample No.** : GFL0097611 **Received** : 13 Nov 2023  
**Lab Number** : 02595720 **Diagnosed** : 13 Nov 2023  
**Unique Number** : 5672799 **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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