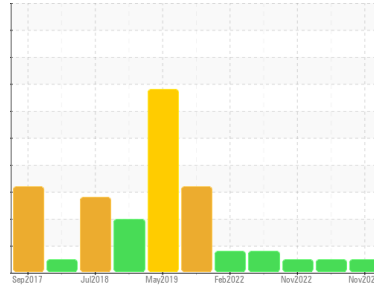




# OIL ANALYSIS REPORT

Sample Rating Trend



**NORMAL**



Machine Id  
**8402**  
 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>GFL0097609</b>	GFL0072806	GFL0059952
Sample Date	Client Info		<b>19 Nov 2023</b>	20 May 2023	20 Nov 2022
Machine Age	hrs	Client Info	<b>14459</b>	13727	0
Oil Age	hrs	Client Info	<b>0</b>	0	0
Oil Changed	Client Info		<b>Changed</b>	N/A	N/A
Sample Status			<b>NORMAL</b>	NORMAL	NORMAL

## CONTAMINATION

	method	limit/base	current	history1	history2
Water	WC Method	>0.1	<b>NEG</b>	NEG	NEG
Glycol	WC Method		<b>---</b>	0.0	---

## WEAR METALS

	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185(m) >50	<b>8</b>	18	21
Chromium	ppm	ASTM D5185(m) >5	<b>&lt;1</b>	<1	1
Nickel	ppm	ASTM D5185(m) >4	<b>&lt;1</b>	<1	<1
Titanium	ppm	ASTM D5185(m) >5	<b>0</b>	0	<1
Silver	ppm	ASTM D5185(m) >3	<b>&lt;1</b>	0	0
Aluminum	ppm	ASTM D5185(m) >25	<b>2</b>	2	3
Lead	ppm	ASTM D5185(m) >40	<b>&lt;1</b>	6	9
Copper	ppm	ASTM D5185(m) >150	<b>&lt;1</b>	4	2
Tin	ppm	ASTM D5185(m) >4	<b>0</b>	<1	1
Antimony	ppm	ASTM D5185(m)	<b>0</b>	<1	<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>28</b>	7	6
Barium	ppm	ASTM D5185(m) 5	<b>&lt;1</b>	0	0
Molybdenum	ppm	ASTM D5185(m) 50	<b>50</b>	56	52
Manganese	ppm	ASTM D5185(m) 0	<b>0</b>	<1	1
Magnesium	ppm	ASTM D5185(m) 560	<b>578</b>	531	565
Calcium	ppm	ASTM D5185(m) 1510	<b>1538</b>	1629	1609
Phosphorus	ppm	ASTM D5185(m) 780	<b>848</b>	701	759
Zinc	ppm	ASTM D5185(m) 870	<b>874</b>	859	920
Sulfur	ppm	ASTM D5185(m) 2040	<b>1965</b>	1951	1978
Lithium	ppm	ASTM D5185(m)	<b>&lt;1</b>	<1	<1

## CONTAMINANTS

	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m) >25	<b>5</b>	4	5
Sodium	ppm	ASTM D5185(m)	<b>40</b>	158	28
Potassium	ppm	ASTM D5185(m) >20	<b>2</b>	10	3

## INFRA-RED

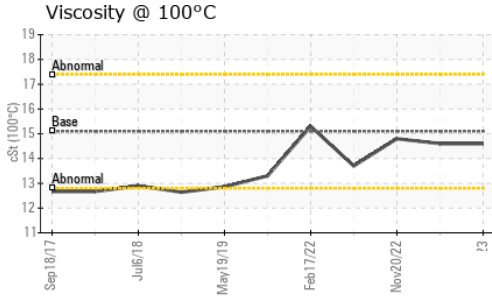
	method	limit/base	current	history1	history2
Soot %	%	ASTM D7844*	<b>0</b>	0	0
Nitration	Abs/cm	ASTM D7624*	<b>7.8</b>	11.8	11.5
Sulfation	Abs/.1mm	ASTM D7415*	<b>19.6</b>	23.7	24.6

## FLUID DEGRADATION

	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	ASTM D7414*	<b>16.4</b>	19.8	20.1



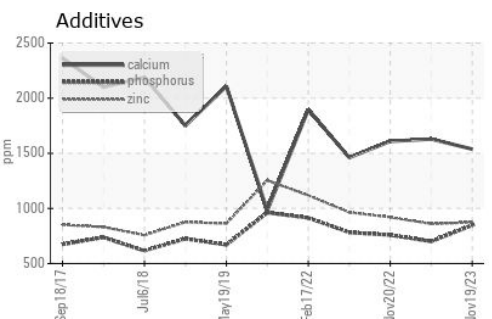
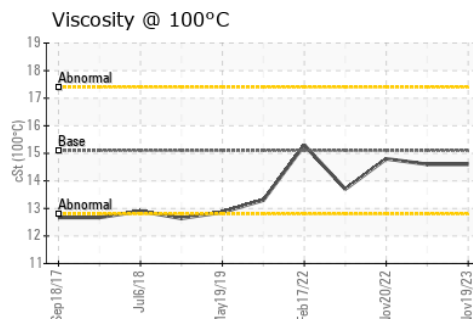
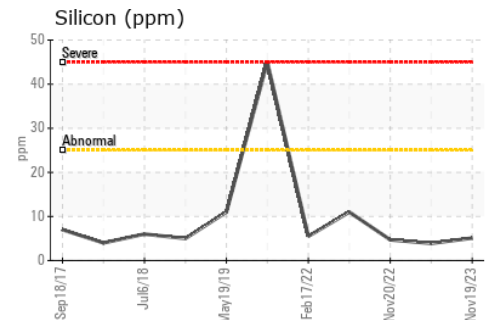
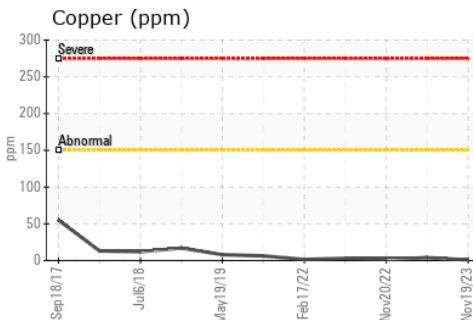
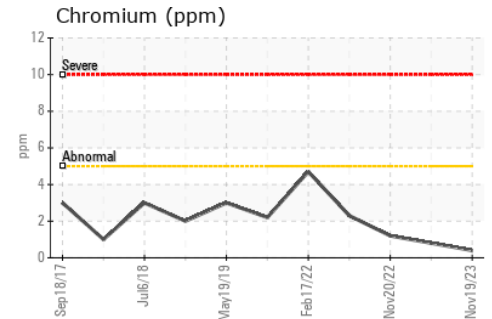
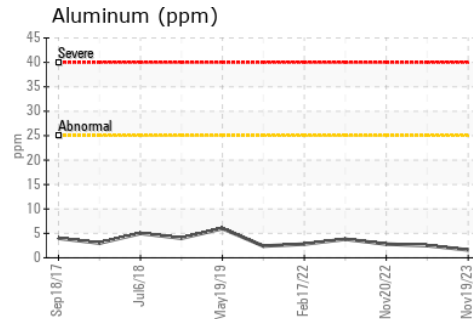
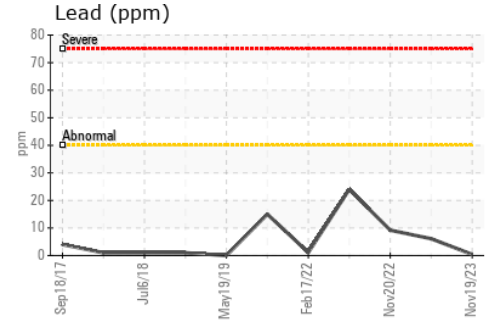
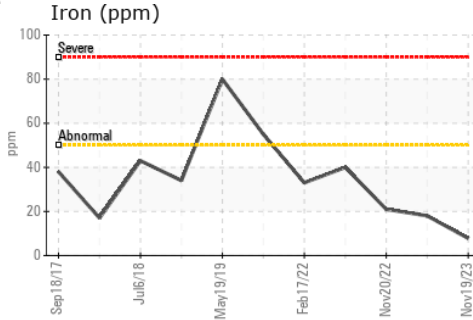
# OIL ANALYSIS REPORT



VISUAL	method	limit/base	current	history1	history2
Emulsified Water	scalar	Visual*	>0.1	NEG	NEG
Free Water	scalar	Visual*		NEG	NEG

FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 100°C	cSt	ASTM D7279(m)	15.1	14.6	14.8

## GRAPHS



**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 GFL Environmental - 554 - Edmonton SW  
**Sample No.** : GFL0097609 **Received** : 20 Nov 2023  
**Lab Number** : 02597473 **Diagnosed** : 21 Nov 2023  
**Unique Number** : 5682553 **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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