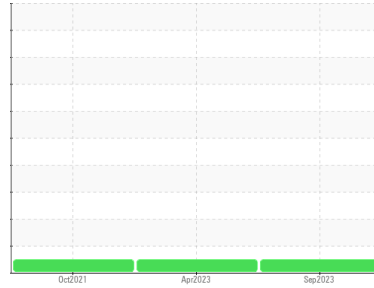




# OIL ANALYSIS REPORT

Sample Rating Trend

**NORMAL**



Machine Id  
**731041**  
 Component  
**Natural Gas Engine**  
 Fluid  
**PETRO CANADA DURON GEO LD 15W40 (--- LTR)**

## 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>GFL</b>	GFL0064310	GFL0037428
Sample Date	Client Info		<b>29 Sep 2023</b>	17 Apr 2023	13 Oct 2021
Machine Age	hrs	Client Info	<b>4737</b>	3817	1105
Oil Age	hrs	Client Info	<b>1200</b>	1200	1105
Oil Changed	Client Info		<b>Changed</b>	Changed	Changed
Sample Status			<b>NORMAL</b>	NORMAL	NORMAL

## WEAR METALS

	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185(m) >50	<b>10</b>	14	71
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	0
Silver	ppm	ASTM D5185(m) >3	<b>&lt;1</b>	0	<1
Aluminum	ppm	ASTM D5185(m) >9	<b>2</b>	3	4
Lead	ppm	ASTM D5185(m) >30	<b>6</b>	7	3
Copper	ppm	ASTM D5185(m) >35	<b>2</b>	3	19
Tin	ppm	ASTM D5185(m) >4	<b>&lt;1</b>	1	2
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>12</b>	9	8
Barium	ppm	ASTM D5185(m) 5	<b>&lt;1</b>	0	3
Molybdenum	ppm	ASTM D5185(m) 50	<b>60</b>	60	95
Manganese	ppm	ASTM D5185(m) 0	<b>0</b>	<1	9
Magnesium	ppm	ASTM D5185(m) 560	<b>594</b>	598	622
Calcium	ppm	ASTM D5185(m) 1510	<b>1608</b>	1726	1074
Phosphorus	ppm	ASTM D5185(m) 780	<b>707</b>	764	704
Zinc	ppm	ASTM D5185(m) 870	<b>925</b>	956	785
Sulfur	ppm	ASTM D5185(m) 2040	<b>1973</b>	2072	2004
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>4</b>	4	31
Sodium	ppm	ASTM D5185(m)	<b>8</b>	9	3
Potassium	ppm	ASTM D5185(m) >20	<b>0</b>	<1	3

## 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>	11.5	10.0
Sulfation	Abs/.1mm	ASTM D7415*	<b>&gt;30</b>	24.5	23.9

## FLUID DEGRADATION

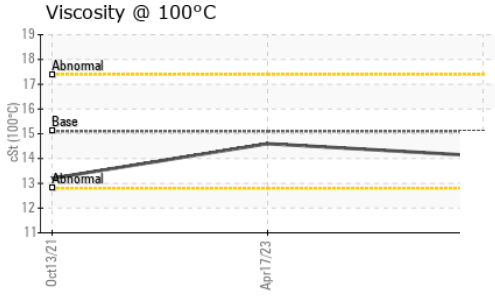
	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	ASTM D7414*	<b>&gt;25</b>	18.1	19.5

## 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

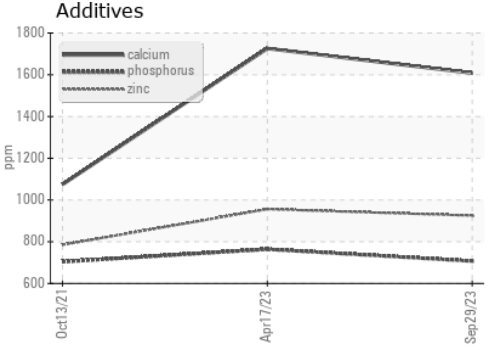
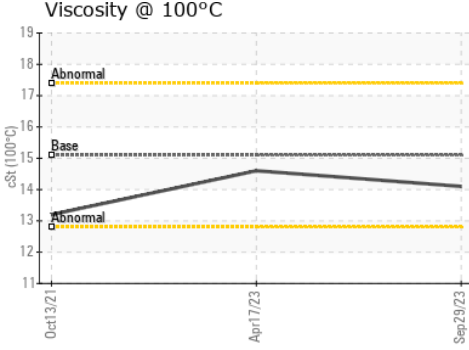
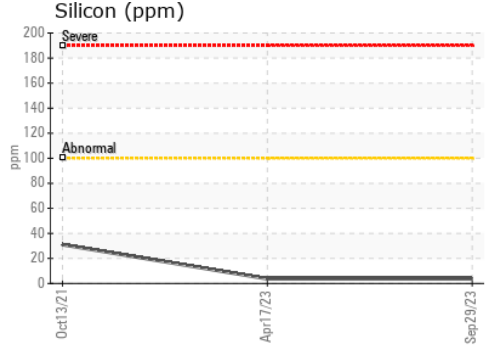
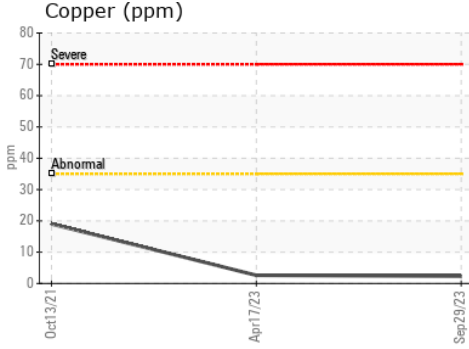
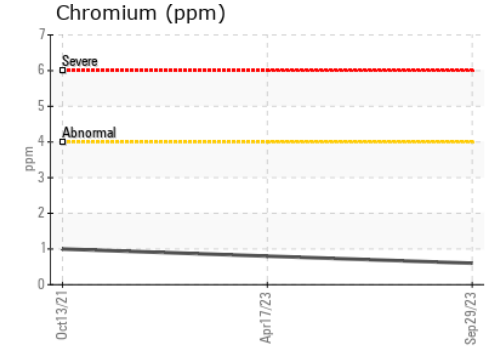
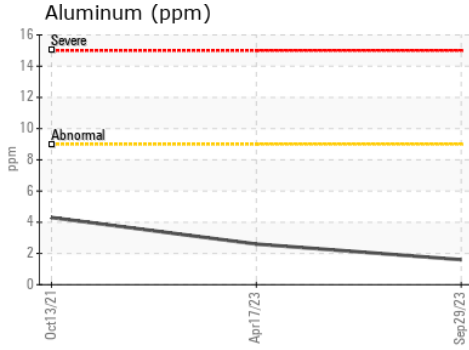
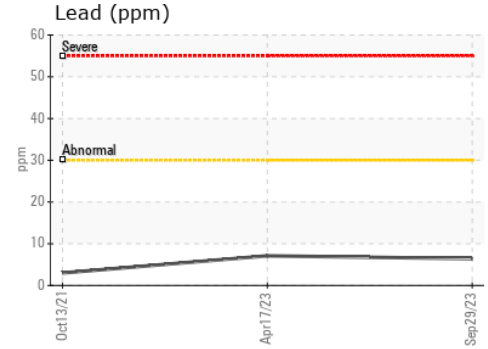
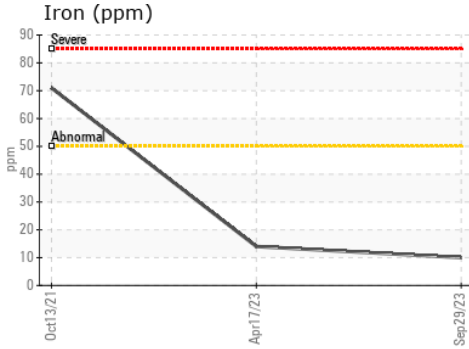


# OIL ANALYSIS REPORT



FLUID PROPERTIES		method	limit/base	current	history1	history2
Visc @ 100°C	cSt	ASTM D7279(m)	15.1	14.1	14.6	13.2

## GRAPHS



**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 **GFL Environmental - 209 - Hamilton**  
**Sample No.** : GFL **Received** : 03 Oct 2023 **560 Seaman Street**  
**Lab Number** : 02586299 **Diagnosed** : 03 Oct 2023 **Stoney Creek, ON**  
**Unique Number** : 5655365 **Diagnostician** : Wes Davis **CA L8E 3X7**  
**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.  
 Contact: Fred Carleton  
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