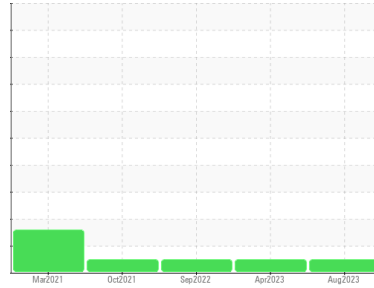




# OIL ANALYSIS REPORT

Sample Rating Trend



**NORMAL**



Machine Id  
**831004**

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>GFL0090617</b>	GFL0077945	GFL0059986
Sample Date	Client Info		<b>19 Aug 2023</b>	09 Apr 2023	19 Sep 2022
Machine Age	hrs	Client Info	<b>6079</b>	5352	0
Oil Age	hrs	Client Info	<b>0</b>	0	0
Oil Changed	Client Info		<b>N/A</b>	N/A	Changed
Sample Status			<b>NORMAL</b>	NORMAL	NORMAL

## WEAR METALS

	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185(m) >50	<b>16</b>	19	12
Chromium	ppm	ASTM D5185(m) >4	<b>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>	3	3
Lead	ppm	ASTM D5185(m) >30	<b>3</b>	3	2
Copper	ppm	ASTM D5185(m) >35	<b>2</b>	2	2
Tin	ppm	ASTM D5185(m) >4	<b>&lt;1</b>	<1	<1
Antimony	ppm	ASTM D5185(m)	<b>0</b>	0	0
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>6</b>	8	7
Barium	ppm	ASTM D5185(m) 5	<b>0</b>	0	0
Molybdenum	ppm	ASTM D5185(m) 50	<b>56</b>	56	56
Manganese	ppm	ASTM D5185(m) 0	<b>1</b>	2	<1
Magnesium	ppm	ASTM D5185(m) 560	<b>614</b>	590	598
Calcium	ppm	ASTM D5185(m) 1510	<b>1694</b>	1736	1754
Phosphorus	ppm	ASTM D5185(m) 780	<b>767</b>	770	803
Zinc	ppm	ASTM D5185(m) 870	<b>934</b>	916	964
Sulfur	ppm	ASTM D5185(m) 2040	<b>1974</b>	2066	2043
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>5</b>	4	4
Sodium	ppm	ASTM D5185(m)	<b>11</b>	11	10
Potassium	ppm	ASTM D5185(m) >20	<b>&lt;1</b>	<1	<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>	12.5	12.2
Sulfation	Abs/.1mm	ASTM D7415*	<b>&gt;30</b>	26.9	26.4

## FLUID DEGRADATION

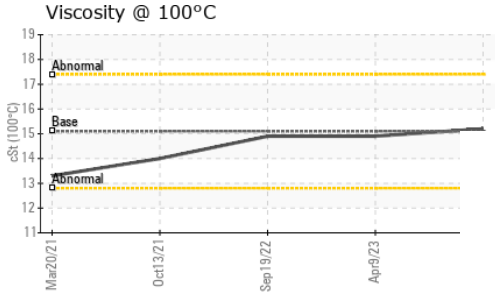
	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	ASTM D7414*	<b>&gt;25</b>	22.0	22.4

## VISUAL

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

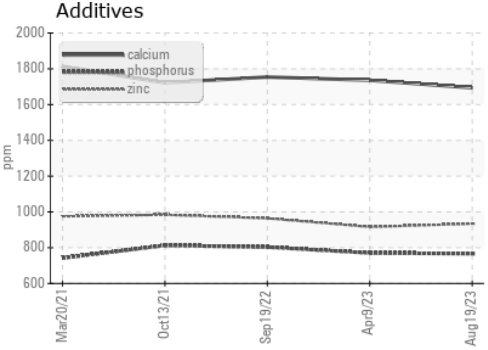
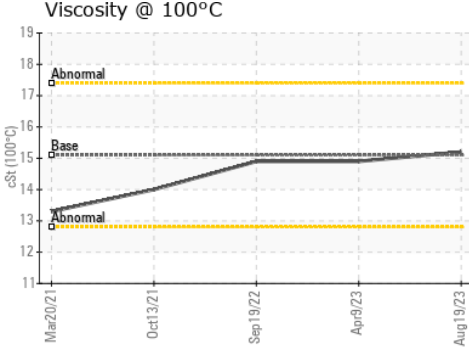
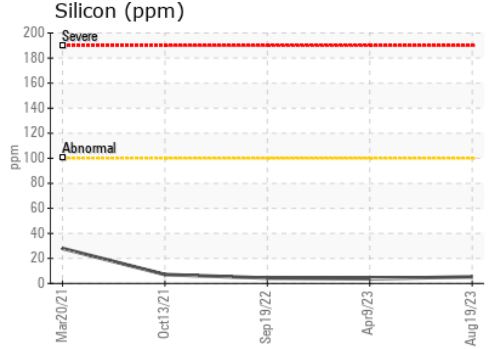
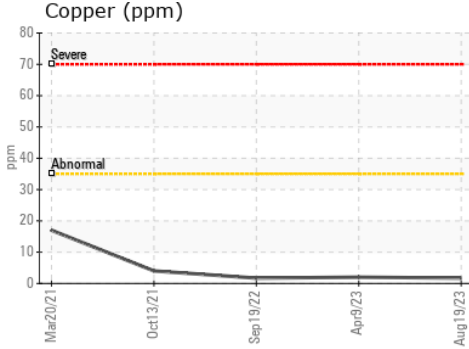
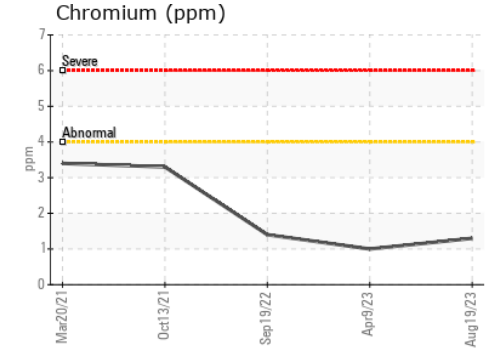
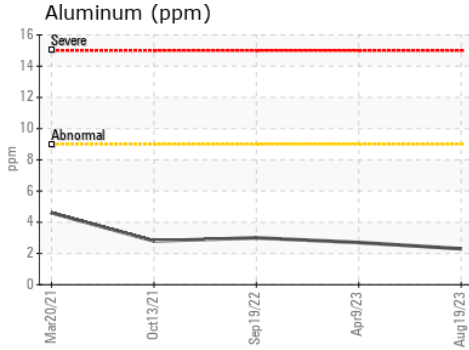
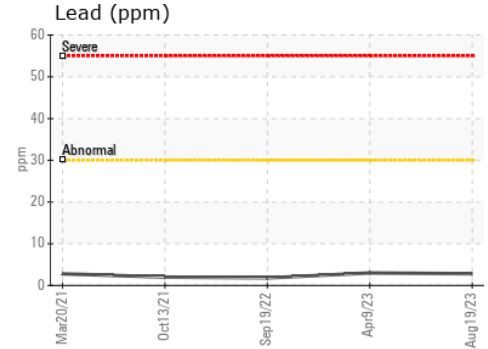
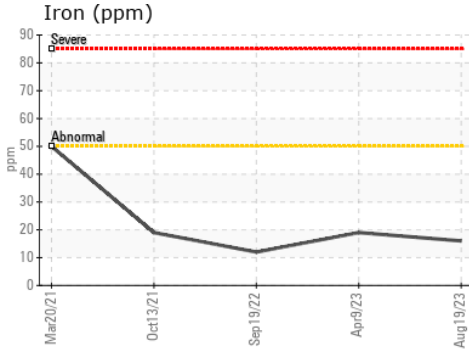


# OIL ANALYSIS REPORT



FLUID PROPERTIES		method	limit/base	current	history1	history2
Visc @ 100°C	cSt	ASTM D7279(m)	15.1	<b>15.2</b>	14.9	14.9

## GRAPHS



**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 **GFL Environmental - 554 - Edmonton SW**  
**Sample No.** : GFL0090617 **Received** : 31 Aug 2023 **8409 -15th Street NW**  
**Lab Number** : 02579573 **Diagnosed** : 31 Aug 2023 **Edmonton, AB**  
**Unique Number** : 5632633 **Diagnostician** : Wes Davis **CA T6P 0B8**  
**Test Package** : MOB 1 **Contact:** Tim Greig **tgreig@gflenv.com**

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.