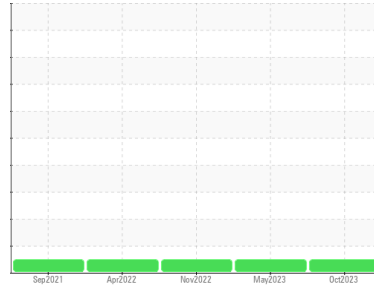




# OIL ANALYSIS REPORT

Sample Rating Trend

**NORMAL**



Machine Id  
**731046**  
 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>GFL0097758</b>	GFL0081593	GFL0044232
Sample Date	Client Info		<b>03 Oct 2023</b>	23 May 2023	04 Nov 2022
Machine Age	hrs	Client Info	<b>5491</b>	4407	3311
Oil Age	hrs	Client Info	<b>1200</b>	1200	2000
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>11</b>	15	15
Chromium	ppm	ASTM D5185(m)	>4	<b>&lt;1</b>	2	2
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	3
Lead	ppm	ASTM D5185(m)	>30	<b>3</b>	10	6
Copper	ppm	ASTM D5185(m)	>35	<b>1</b>	2	3
Tin	ppm	ASTM D5185(m)	>4	<b>&lt;1</b>	<1	<1
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>9</b>	10	11
Barium	ppm	ASTM D5185(m)	5	<b>&lt;1</b>	0	0
Molybdenum	ppm	ASTM D5185(m)	50	<b>65</b>	57	60
Manganese	ppm	ASTM D5185(m)	0	<b>&lt;1</b>	1	1
Magnesium	ppm	ASTM D5185(m)	560	<b>602</b>	623	564
Calcium	ppm	ASTM D5185(m)	1510	<b>1661</b>	1722	1787
Phosphorus	ppm	ASTM D5185(m)	780	<b>705</b>	815	827
Zinc	ppm	ASTM D5185(m)	870	<b>949</b>	972	1008
Sulfur	ppm	ASTM D5185(m)	2040	<b>2086</b>	2122	2233
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>	14	4
Sodium	ppm	ASTM D5185(m)		<b>8</b>	9	8
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*	>20	<b>11.2</b>	12.2	12.8
Sulfation	Abs/.1mm	ASTM D7415*	>30	<b>23.4</b>	26.2	25.7

## FLUID DEGRADATION

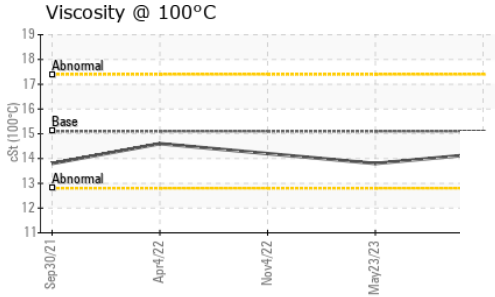
	method	limit/base	current	history1	history2	
Oxidation	Abs/.1mm	ASTM D7414*	>25	<b>18.4</b>	20.8	19.8

## VISUAL

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

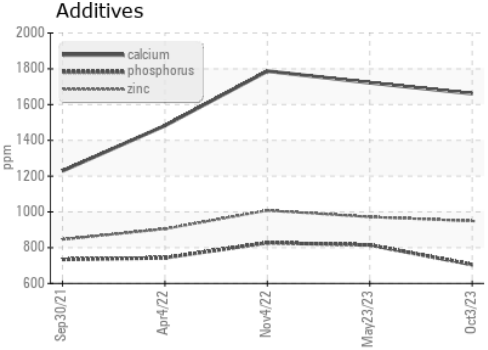
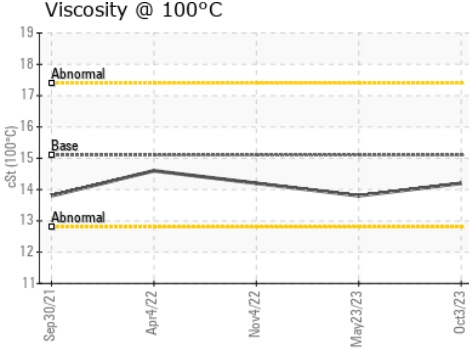
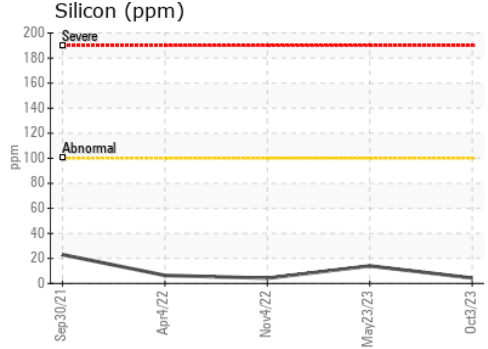
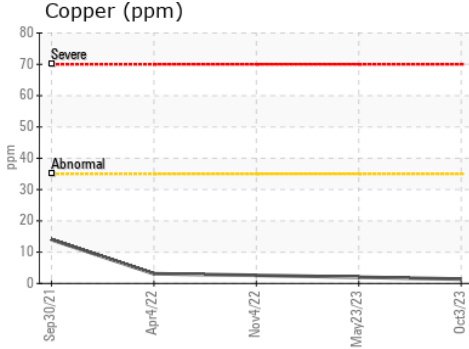
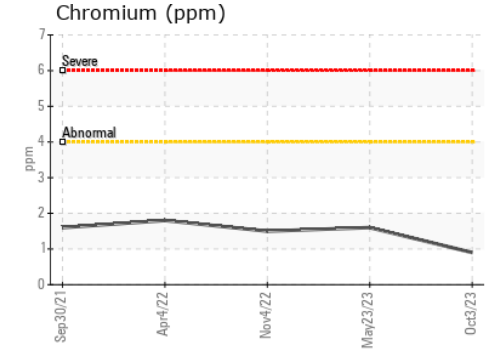
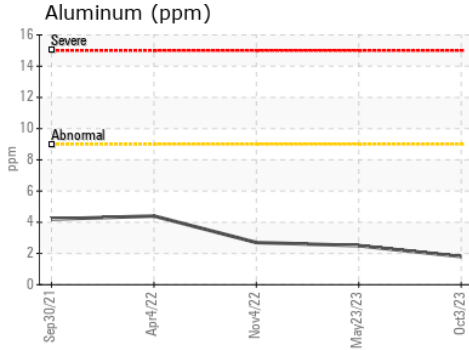
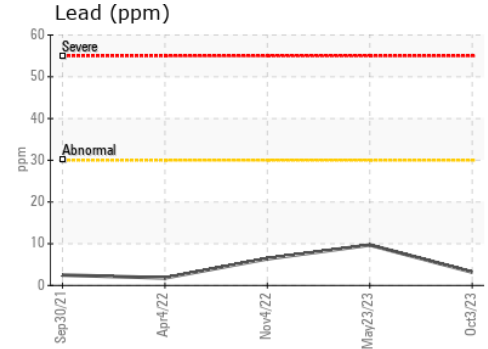
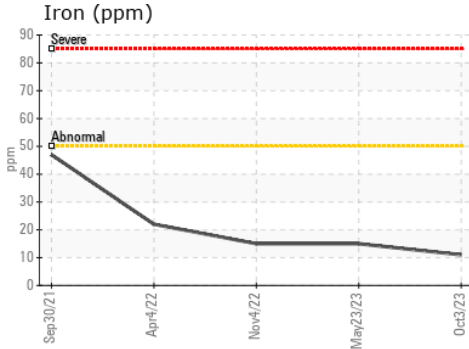


# OIL ANALYSIS REPORT



FLUID PROPERTIES		method	limit/base	current	history1	history2
Visc @ 100°C	cSt	ASTM D7279(m)	15.1	<b>14.2</b>	13.8	14.2

## GRAPHS



ISO 17025:2017  
Accredited  
Laboratory

**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 **GFL Environmental - 209 - Hamilton**  
**Sample No.** : GFL0097758 **Received** : 05 Oct 2023  
**Lab Number** : 02587075 **Diagnosed** : 05 Oct 2023  
**Unique Number** : 5656141 **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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