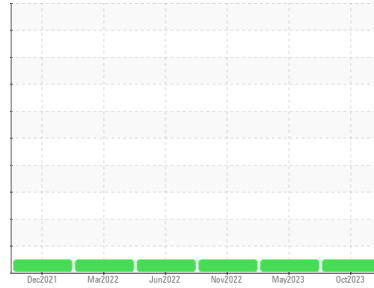




# OIL ANALYSIS REPORT

Sample Rating Trend

**NORMAL**



Machine Id  
**731078**  
 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>GFL0097757</b>	GFL0081588	GFL0054896
Sample Date	Client Info		<b>16 Oct 2023</b>	29 May 2023	01 Nov 2022
Machine Age	hrs	Client Info	<b>4775</b>	3989	2891
Oil Age	hrs	Client Info	<b>1200</b>	1200	1000
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>	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>&lt;1</b>	0	0
Aluminum	ppm	ASTM D5185(m) >9	<b>2</b>	2	2
Lead	ppm	ASTM D5185(m) >30	<b>2</b>	2	1
Copper	ppm	ASTM D5185(m) >35	<b>1</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>	7	9
Barium	ppm	ASTM D5185(m) 5	<b>&lt;1</b>	0	0
Molybdenum	ppm	ASTM D5185(m) 50	<b>58</b>	62	54
Manganese	ppm	ASTM D5185(m) 0	<b>0</b>	1	<1
Magnesium	ppm	ASTM D5185(m) 560	<b>580</b>	612	563
Calcium	ppm	ASTM D5185(m) 1510	<b>1580</b>	1739	1694
Phosphorus	ppm	ASTM D5185(m) 780	<b>663</b>	771	754
Zinc	ppm	ASTM D5185(m) 870	<b>928</b>	973	946
Sulfur	ppm	ASTM D5185(m) 2040	<b>2051</b>	2177	2178
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>	5	5
Sodium	ppm	ASTM D5185(m)	<b>8</b>	11	8
Potassium	ppm	ASTM D5185(m) >20	<b>0</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>	12.0	12.2
Sulfation	Abs/.1mm	ASTM D7415*	<b>&gt;30</b>	25.0	22.4

## FLUID DEGRADATION

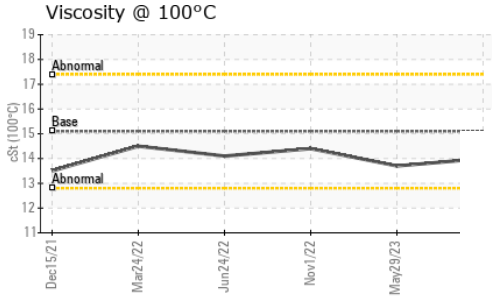
	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	ASTM D7414*	<b>&gt;25</b>	19.3	18.1

## 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

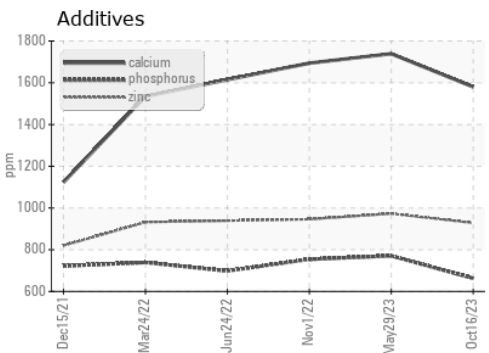
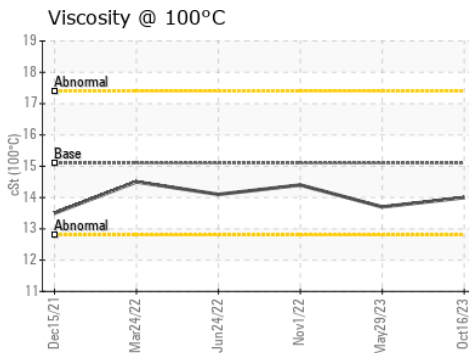
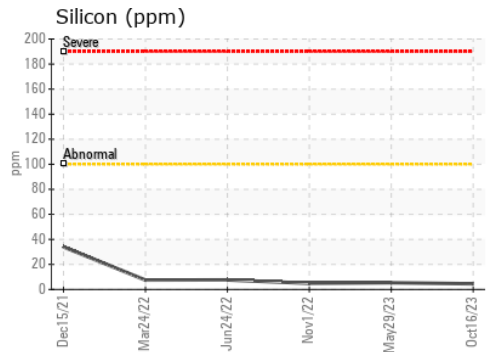
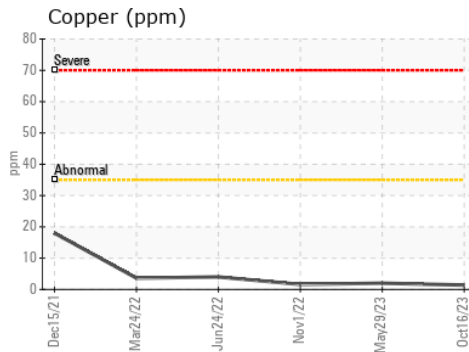
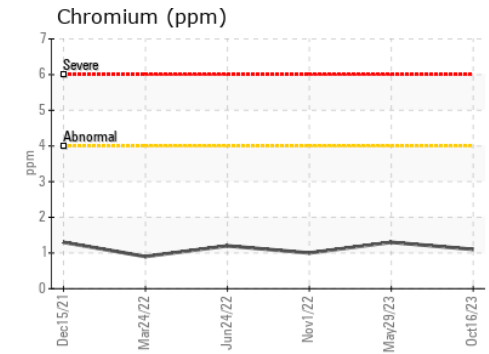
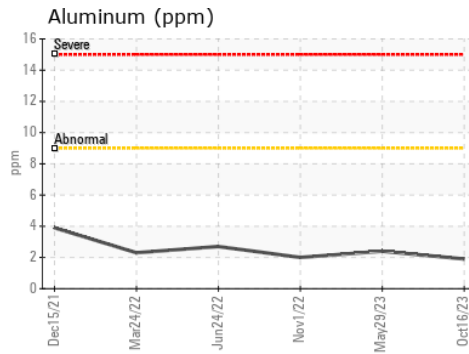
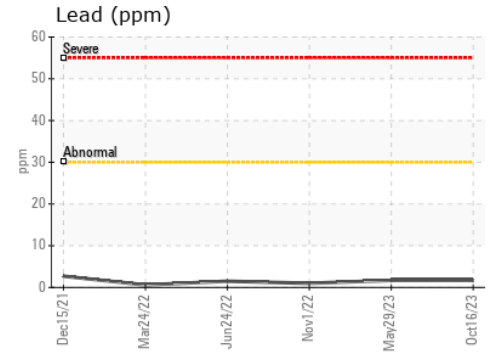
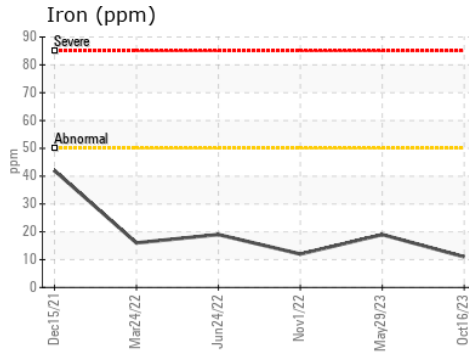


# OIL ANALYSIS REPORT



FLUID PROPERTIES		method	limit/base	current	history1	history2
Visc @ 100°C	cSt	ASTM D7279(m)	15.1	<b>14.0</b>	13.7	14.4

## GRAPHS



**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 **GFL Environmental - 209 - Hamilton**  
**Sample No.** : GFL0097757 **Received** : 18 Oct 2023 **560 Seaman Street**  
**Lab Number** : 02589941 **Diagnosed** : 18 Oct 2023 **Stoney Creek, ON**  
**Unique Number** : 5659007 **Diagnostician** : Wes Davis **CA L8E 3X7**  
**Test Package** : MOB 1 **Contact: Fred Carleton**  
**fred.carleton@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.

**T: (289)925-6693**  
**F: (905)664-9008**