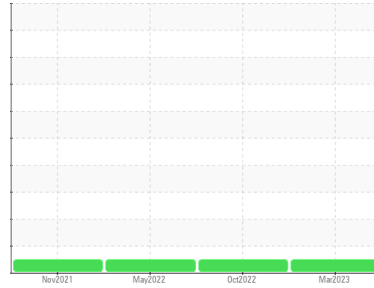




# OIL ANALYSIS REPORT

Sample Rating Trend

**NORMAL**



Machine Id  
**731098**  
 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	history 1	history 2
Sample Number	Client Info	<b>GFL0064307</b>	GFL0061004	GFL0050355
Sample Date	Client Info	<b>30 Mar 2023</b>	11 Oct 2022	09 May 2022
Machine Age	hrs	<b>4317</b>	3183	2152
Oil Age	hrs	<b>1200</b>	1400	950
Oil Changed	Client Info	<b>Changed</b>	Changed	Changed
Sample Status		<b>NORMAL</b>	NORMAL	NORMAL

## WEAR METALS

method	limit/base	current	history 1	history 2	
Iron	ppm	ASTM D5185(m) >50	<b>12</b>	11	21
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>&lt;1</b>	<1	<1
Silver	ppm	ASTM D5185(m) >3	<b>0</b>	0	<1
Aluminum	ppm	ASTM D5185(m) >9	<b>2</b>	2	2
Lead	ppm	ASTM D5185(m) >30	<b>&lt;1</b>	<1	2
Copper	ppm	ASTM D5185(m) >35	<b>2</b>	2	5
Tin	ppm	ASTM D5185(m) >4	<b>&lt;1</b>	<1	1
Antimony	ppm	ASTM D5185(m)	<b>&lt;1</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	history 1	history 2	
Boron	ppm	ASTM D5185(m) 50	<b>9</b>	12	8
Barium	ppm	ASTM D5185(m) 5	<b>0</b>	0	<1
Molybdenum	ppm	ASTM D5185(m) 50	<b>56</b>	61	62
Manganese	ppm	ASTM D5185(m) 0	<b>&lt;1</b>	<1	2
Magnesium	ppm	ASTM D5185(m) 560	<b>585</b>	584	628
Calcium	ppm	ASTM D5185(m) 1510	<b>1677</b>	1676	1543
Phosphorus	ppm	ASTM D5185(m) 780	<b>758</b>	740	722
Zinc	ppm	ASTM D5185(m) 870	<b>932</b>	911	943
Sulfur	ppm	ASTM D5185(m) 2040	<b>2077</b>	2088	2062
Lithium	ppm	ASTM D5185(m)	<b>&lt;1</b>	<1	<1

## CONTAMINANTS

method	limit/base	current	history 1	history 2	
Silicon	ppm	ASTM D5185(m) >+100	<b>3</b>	5	7
Sodium	ppm	ASTM D5185(m)	<b>8</b>	7	8
Potassium	ppm	ASTM D5185(m) >20	<b>&lt;1</b>	0	1

## INFRA-RED

method	limit/base	current	history 1	history 2	
Soot %	%	ASTM D7844*	<b>0</b>	0	0
Nitration	Abs/cm	ASTM D7624*	>20	<b>10.7</b>	12.0
Sulfation	Abs/.1mm	ASTM D7415*	>30	<b>24.7</b>	23.9

## FLUID DEGRADATION

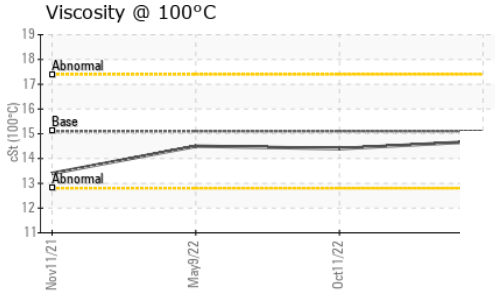
method	limit/base	current	history 1	history 2	
Oxidation	Abs/.1mm	ASTM D7414*	>25	<b>17.4</b>	19.2

## VISUAL

method	limit/base	current	history 1	history 2	
Emulsified Water	scalar	Visual*	>0.1	<b>NEG</b>	NEG
Free Water	scalar	Visual*		<b>NEG</b>	NEG

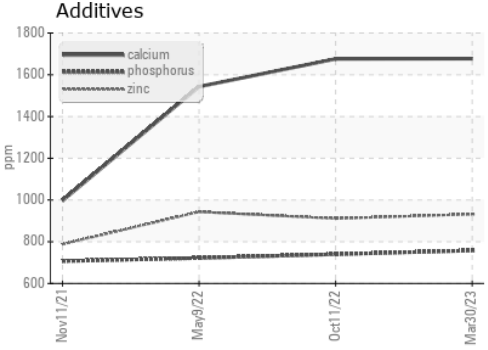
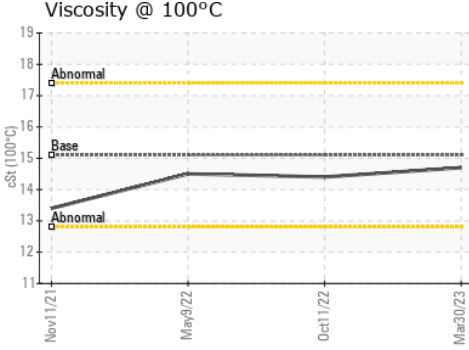
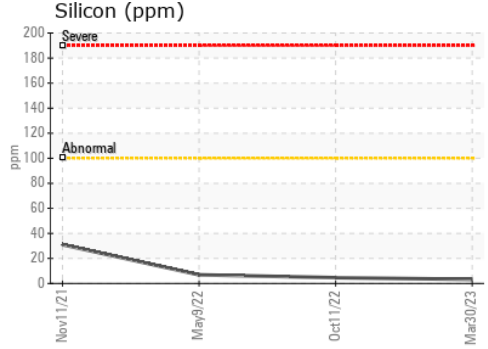
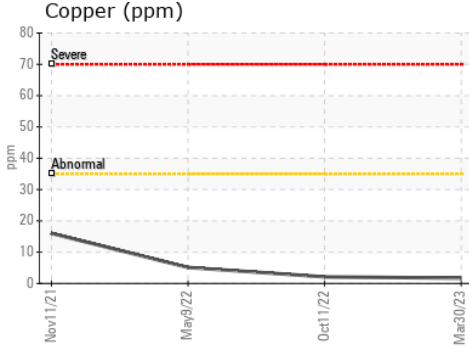
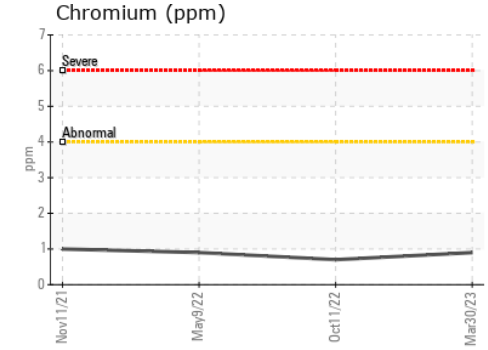
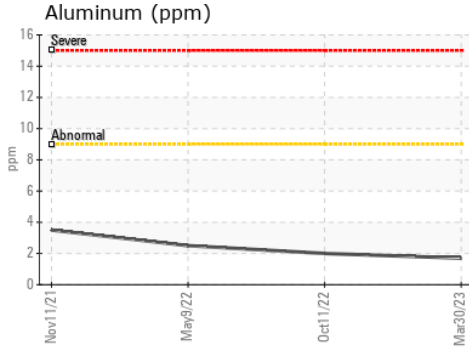
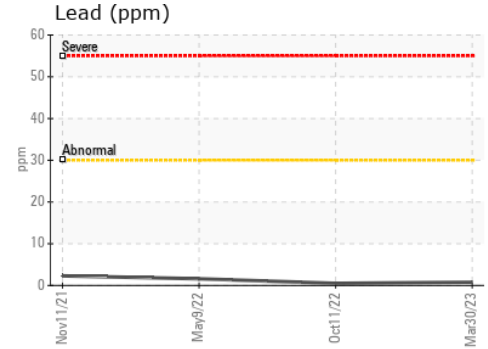
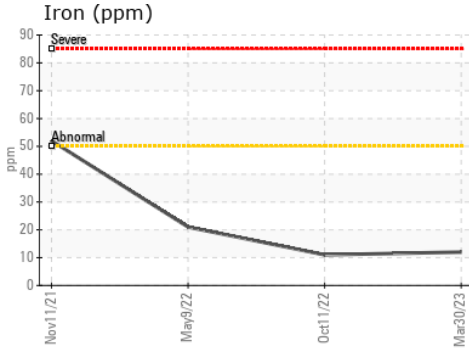


# OIL ANALYSIS REPORT



FLUID PROPERTIES		method	limit/base	current	history 1	history 2
Visc @ 100°C	cSt	ASTM D7279(m)	15.1	<b>14.7</b>	14.4	14.5

## GRAPHS



**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 **GFL Environmental - 209 - Hamilton**  
**Sample No.** : GFL0064307 **Received** : 03 Apr 2023 560 Seaman Street  
**Lab Number** : 02549282 **Diagnosed** : 03 Apr 2023 Stoney Creek, ON  
**Unique Number** : 5554292 **Diagnostician** : Wes Davis CA L8E 3X7  
**Test Package** : MOB 1 Contact: Fred Carleton

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.

fred.carleton@gflenv.com  
 T: (289)925-6693  
 F: (905)664-9008