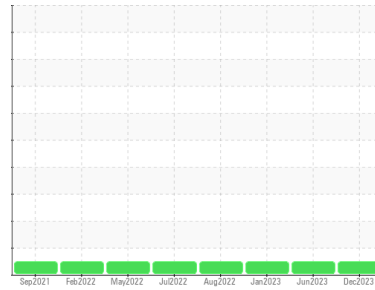




# OIL ANALYSIS REPORT

Sample Rating Trend

**NORMAL**



Machine Id  
**731100**

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	history1	history2	
Sample Number	Client Info	<b>GFL0097784</b>	GFL0085870	GFL0064290	
Sample Date	Client Info	<b>06 Dec 2023</b>	27 Jun 2023	13 Jan 2023	
Machine Age	hrs	Client Info	<b>6803</b>	5710	4593
Oil Age	hrs	Client Info	<b>1200</b>	1200	1100
Oil Changed	Client Info	<b>Changed</b>	Changed	Changed	
Sample Status		<b>NORMAL</b>	NORMAL	NORMAL	

## CONTAMINATION

method	limit/base	current	history1	history2	
Water	WC Method	>0.1	<b>NEG</b>	NEG	NEG

## WEAR METALS

method	limit/base	current	history1	history2		
Iron	ppm	ASTM D5185(m)	>50	<b>14</b>	15	9
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>	2	2
Lead	ppm	ASTM D5185(m)	>30	<b>8</b>	11	1
Copper	ppm	ASTM D5185(m)	>35	<b>2</b>	2	1
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>11</b>	8	12
Barium	ppm	ASTM D5185(m)	5	<b>&lt;1</b>	0	0
Molybdenum	ppm	ASTM D5185(m)	50	<b>74</b>	60	52
Manganese	ppm	ASTM D5185(m)	0	<b>&lt;1</b>	<1	<1
Magnesium	ppm	ASTM D5185(m)	560	<b>547</b>	677	557
Calcium	ppm	ASTM D5185(m)	1510	<b>1766</b>	1684	1627
Phosphorus	ppm	ASTM D5185(m)	780	<b>781</b>	806	712
Zinc	ppm	ASTM D5185(m)	870	<b>984</b>	1020	925
Sulfur	ppm	ASTM D5185(m)	2040	<b>2197</b>	2102	2036
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	3
Sodium	ppm	ASTM D5185(m)		<b>9</b>	9	6
Potassium	ppm	ASTM D5185(m)	>20	<b>&lt;1</b>	<1	0

## INFRA-RED

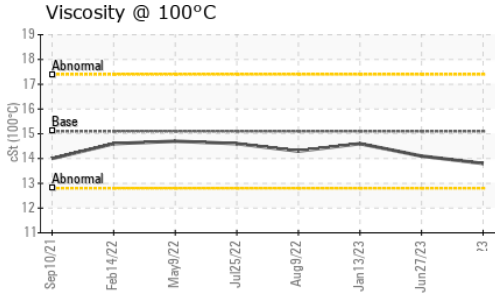
method	limit/base	current	history1	history2		
Soot %	%	ASTM D7844*		<b>0</b>	0	0
Nitration	Abs/cm	ASTM D7624*	>20	<b>11.9</b>	12.7	11.4
Sulfation	Abs./1mm	ASTM D7415*	>30	<b>24.9</b>	25.7	23.0

## FLUID DEGRADATION

method	limit/base	current	history1	history2		
Oxidation	Abs./1mm	ASTM D7414*	>25	<b>18.5</b>	20.7	18.4



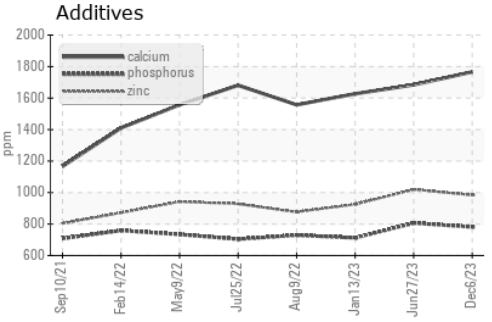
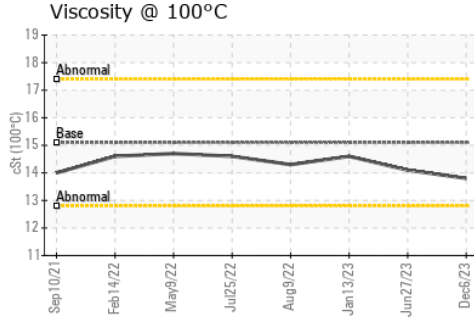
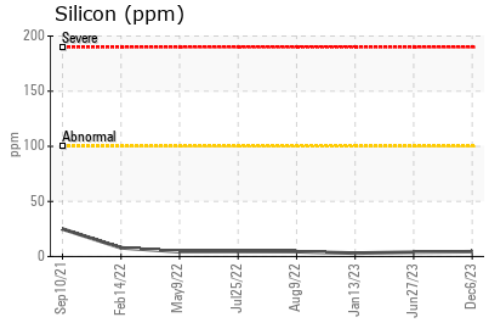
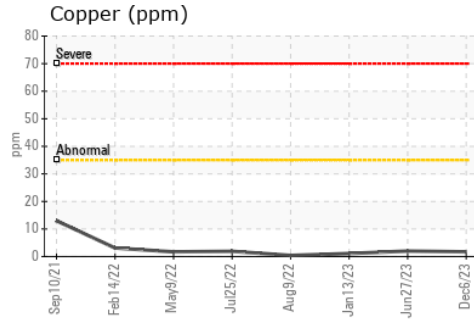
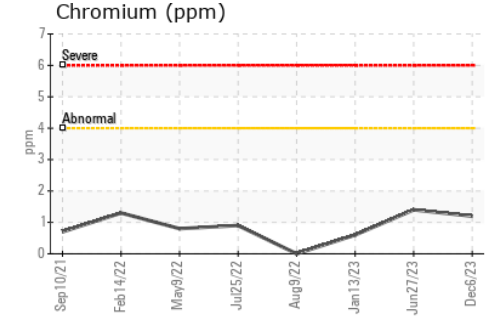
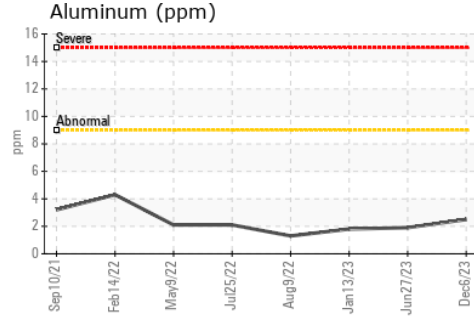
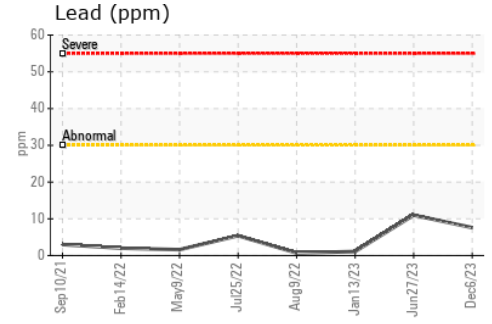
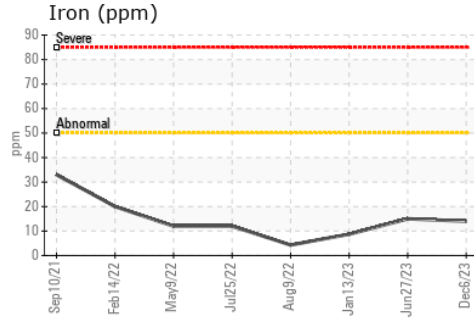
# OIL ANALYSIS REPORT



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

FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 100°C	cSt	ASTM D7279(m)	15.1	13.8	14.1

## GRAPHS



**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 **GFL Environmental - 209 - Hamilton**  
**Sample No.** : GFL0097784 **Received** : 12 Dec 2023  
**Lab Number** : 02602618 **Diagnosed** : 12 Dec 2023  
**Unique Number** : 5695703 **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.

560 Seaman Street  
 Stoney Creek, ON  
 CA L8E 3X7  
 Contact: Fred Carleton  
 fred.carleton@gflenv.com  
 T: (289)925-6693  
 F: (905)664-9008