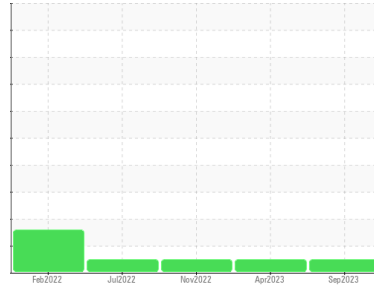




# OIL ANALYSIS REPORT

Sample Rating Trend

**NORMAL**



Machine Id  
**731108**  
 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>GFL0081618</b>	GFL0081574	GFL0060986	
Sample Date	Client Info	<b>15 Sep 2023</b>	20 Apr 2023	11 Nov 2022	
Machine Age	hrs	Client Info	<b>5336</b>	4251	3167
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	

## CONTAMINATION

method	limit/base	current	history1	history2
Glycol	WC Method	---	---	---

## WEAR METALS

method	limit/base	current	history1	history2	
Iron	ppm	ASTM D5185(m) >50	<b>12</b>	12	11
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>&lt;1</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>5</b>	3	<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	<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>7</b>	7	7
Barium	ppm	ASTM D5185(m) 5	<b>0</b>	0	0
Molybdenum	ppm	ASTM D5185(m) 50	<b>61</b>	55	54
Manganese	ppm	ASTM D5185(m) 0	<b>&lt;1</b>	<1	<1
Magnesium	ppm	ASTM D5185(m) 560	<b>650</b>	612	561
Calcium	ppm	ASTM D5185(m) 1510	<b>1641</b>	1704	1712
Phosphorus	ppm	ASTM D5185(m) 780	<b>806</b>	763	726
Zinc	ppm	ASTM D5185(m) 870	<b>966</b>	973	941
Sulfur	ppm	ASTM D5185(m) 2040	<b>2085</b>	2170	2096
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	4
Sodium	ppm	ASTM D5185(m)	<b>9</b>	9	9
Potassium	ppm	ASTM D5185(m) >20	<b>&lt;1</b>	<1	<1

## INFRA-RED

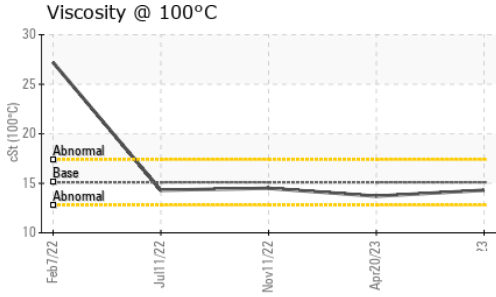
method	limit/base	current	history1	history2		
Soot %	%	ASTM D7844*	<b>0</b>	0	0	
Nitration	Abs/cm	ASTM D7624*	>20	<b>11.8</b>	11.7	12.3
Sulfation	Abs/.1mm	ASTM D7415*	>30	<b>24.7</b>	25.0	25.1

## FLUID DEGRADATION

method	limit/base	current	history1	history2		
Oxidation	Abs/.1mm	ASTM D7414*	>25	<b>19.5</b>	20.0	20.5



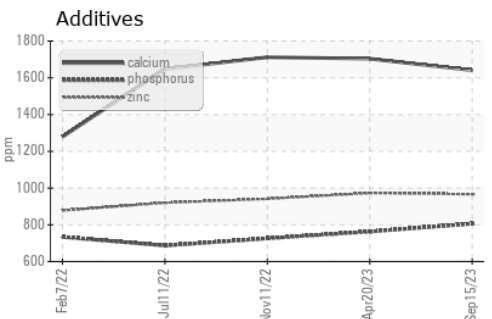
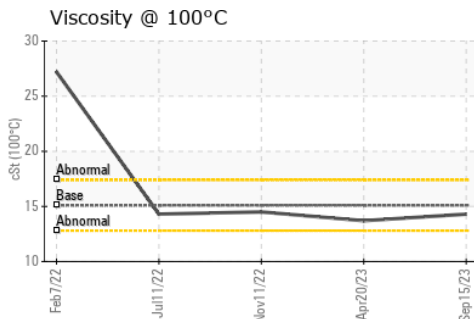
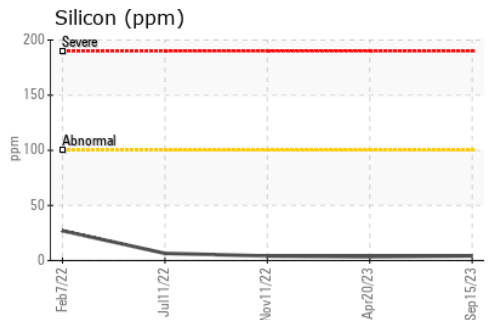
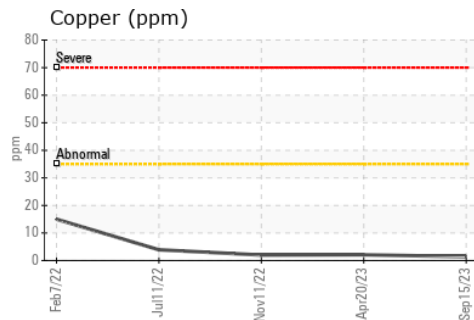
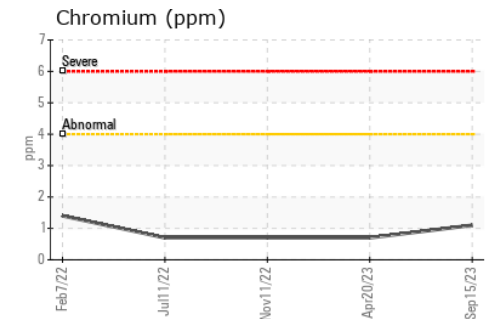
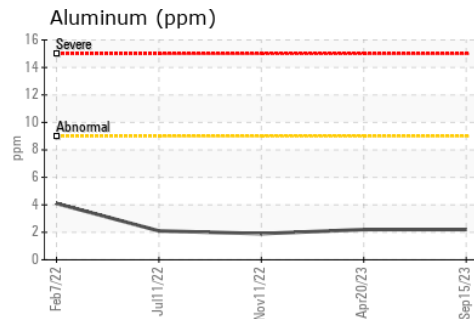
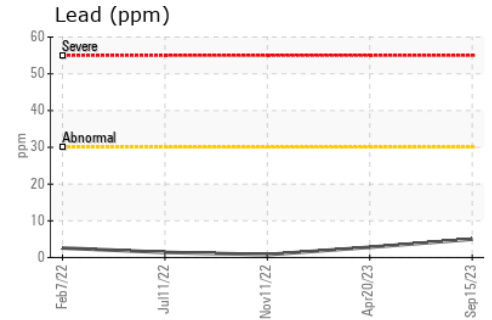
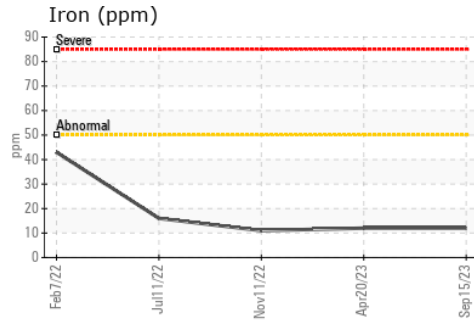
# OIL ANALYSIS REPORT



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	14.3	13.7

## GRAPHS



**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 **GFL Environmental - 209 - Hamilton**  
**Sample No.** : GFL0081618 **Received** : 19 Sep 2023 560 Seaman Street  
**Lab Number** : **02583541** **Diagnosed** : 19 Sep 2023 Stoney Creek, ON  
**Unique Number** : 5644606 **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.

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