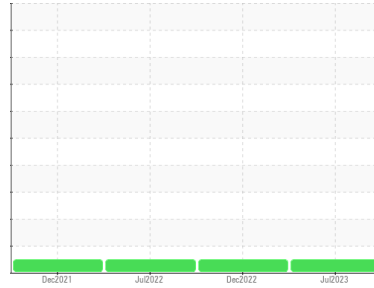




# OIL ANALYSIS REPORT

Sample Rating Trend

**NORMAL**



Machine Id  
**831039**

Component  
**Natural Gas Engine**

Fluid  
**PETRO CANADA DURON GEO LD 15W40 (--- GAL)**

## DIAGNOSIS

### Recommendation

Resample at the next service interval to monitor. Please specify the component make and model with your next sample.

### 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>GFL</b>	GFL0064078	GFL0054183	
Sample Date	Client Info	<b>12 Jul 2023</b>	05 Dec 2022	04 Jul 2022	
Machine Age	hrs	Client Info	<b>0</b>	2136	0
Oil Age	hrs	Client Info	<b>0</b>	0	0
Oil Changed	Client Info	<b>N/A</b>	N/A	Changed	
Sample Status		<b>NORMAL</b>	NORMAL	NORMAL	

## CONTAMINATION

method	limit/base	current	history1	history2
Glycol	WC Method	---	---	0.0

## WEAR METALS

method	limit/base	current	history1	history2	
Iron	ppm	ASTM D5185(m) >50	<b>19</b>	19	27
Chromium	ppm	ASTM D5185(m) >4	<b>2</b>	2	4
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>3</b>	4	4
Lead	ppm	ASTM D5185(m) >30	<b>4</b>	1	5
Copper	ppm	ASTM D5185(m) >35	<b>2</b>	2	4
Tin	ppm	ASTM D5185(m) >4	<b>&lt;1</b>	<1	2
Antimony	ppm	ASTM D5185(m)	<b>0</b>	<1	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>7</b>	6	6
Barium	ppm	ASTM D5185(m) 5	<b>0</b>	0	0
Molybdenum	ppm	ASTM D5185(m) 50	<b>56</b>	53	56
Manganese	ppm	ASTM D5185(m) 0	<b>&lt;1</b>	<1	2
Magnesium	ppm	ASTM D5185(m) 560	<b>604</b>	534	589
Calcium	ppm	ASTM D5185(m) 1510	<b>1668</b>	1649	1736
Phosphorus	ppm	ASTM D5185(m) 780	<b>795</b>	724	730
Zinc	ppm	ASTM D5185(m) 870	<b>963</b>	904	950
Sulfur	ppm	ASTM D5185(m) 2040	<b>2019</b>	2033	2076
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	8
Sodium	ppm	ASTM D5185(m)	<b>10</b>	4	13
Potassium	ppm	ASTM D5185(m) >20	<b>4</b>	4	11

## INFRA-RED

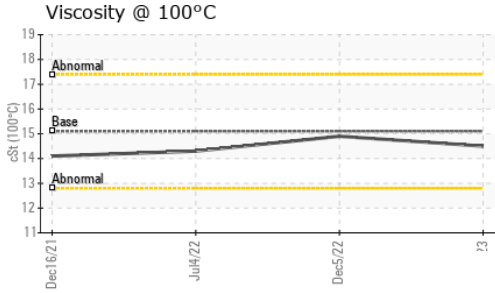
method	limit/base	current	history1	history2		
Soot %	%	ASTM D7844*	<b>0</b>	0	0	
Nitration	Abs/cm	ASTM D7624*	>20	<b>12.8</b>	10.5	12.5
Sulfation	Abs/.1mm	ASTM D7415*	>30	<b>26.1</b>	22.1	28.6

## FLUID DEGRADATION

method	limit/base	current	history1	history2		
Oxidation	Abs/.1mm	ASTM D7414*	>25	<b>21.8</b>	16.9	22.8



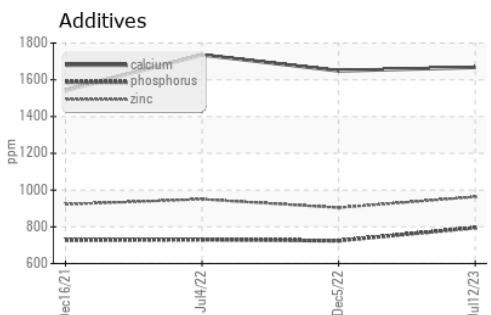
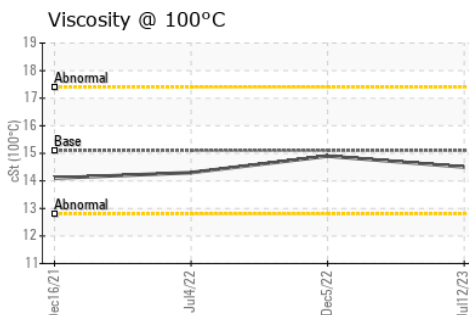
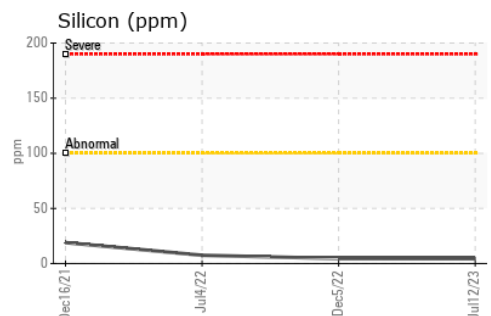
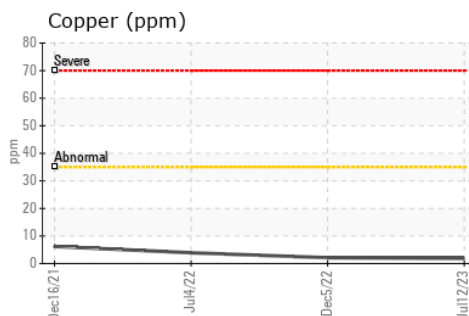
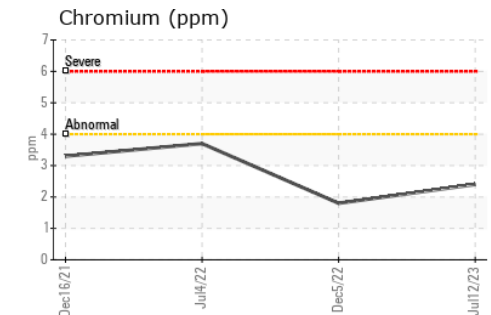
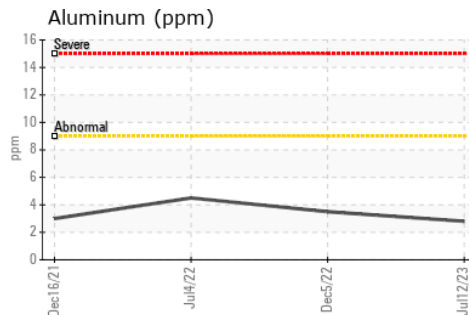
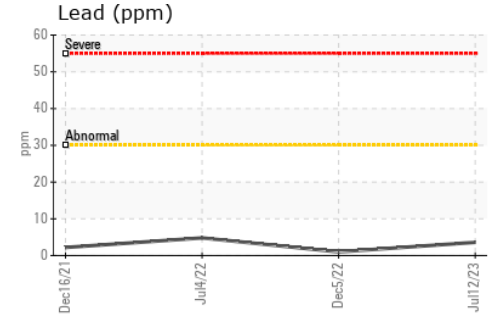
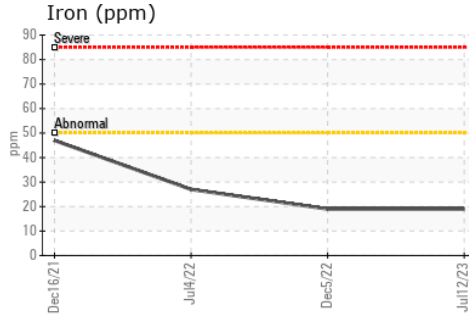
# OIL ANALYSIS REPORT



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	14.5	14.9

## GRAPHS



**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 GFL Environmental - 554 - Edmonton SW  
**Sample No.** : GFL **Received** : 13 Jul 2023  
**Lab Number** : 02569699 **Diagnosed** : 13 Jul 2023  
**Unique Number** : 5606745 **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.

Contact: Tim Greig  
 tgreig@gflenv.com

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