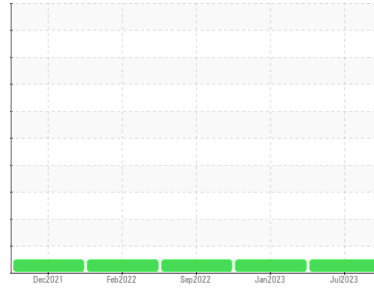




# OIL ANALYSIS REPORT

Sample Rating Trend

**NORMAL**



Machine Id  
**801135**  
 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>GFL0063661</b>	GFL0057509	GFL0039160
Sample Date	Client Info		<b>18 Jul 2023</b>	25 Jan 2023	23 Sep 2022
Machine Age	hrs	Client Info	<b>14947</b>	13891	13266
Oil Age	hrs	Client Info	<b>600</b>	600	600
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		---	---	0.0

## WEAR METALS

	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185(m) >50	<b>11</b>	11	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>0</b>	0	0
Aluminum	ppm	ASTM D5185(m) >9	<b>2</b>	2	2
Lead	ppm	ASTM D5185(m) >30	<b>1</b>	2	2
Copper	ppm	ASTM D5185(m) >35	<b>13</b>	36	16
Tin	ppm	ASTM D5185(m) >4	<b>0</b>	<1	0
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>	10	9
Barium	ppm	ASTM D5185(m) 5	<b>0</b>	0	0
Molybdenum	ppm	ASTM D5185(m) 50	<b>55</b>	55	53
Manganese	ppm	ASTM D5185(m) 0	<b>&lt;1</b>	<1	<1
Magnesium	ppm	ASTM D5185(m) 560	<b>577</b>	563	559
Calcium	ppm	ASTM D5185(m) 1510	<b>1627</b>	1733	1687
Phosphorus	ppm	ASTM D5185(m) 780	<b>689</b>	740	713
Zinc	ppm	ASTM D5185(m) 870	<b>922</b>	977	928
Sulfur	ppm	ASTM D5185(m) 2040	<b>1987</b>	2105	2005
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>3</b>	3	4
Sodium	ppm	ASTM D5185(m)	<b>8</b>	9	12
Potassium	ppm	ASTM D5185(m) >20	<b>1</b>	2	6

## INFRA-RED

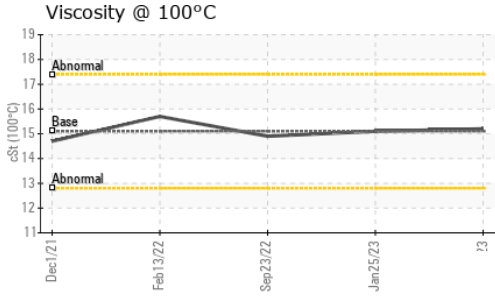
	method	limit/base	current	history1	history2
Soot %	%	ASTM D7844*	<b>0</b>	0	0
Nitration	Abs/cm	ASTM D7624*	<b>11.1</b>	5.5	11.8
Sulfation	Abs/.1mm	ASTM D7415*	<b>24.4</b>	15.9	25.2

## FLUID DEGRADATION

	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	ASTM D7414*	<b>19.1</b>	8.6	20.5



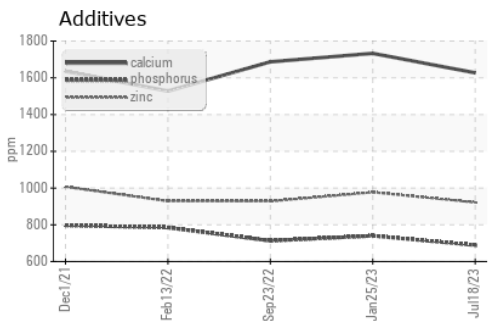
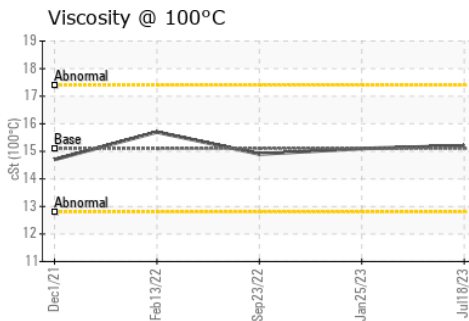
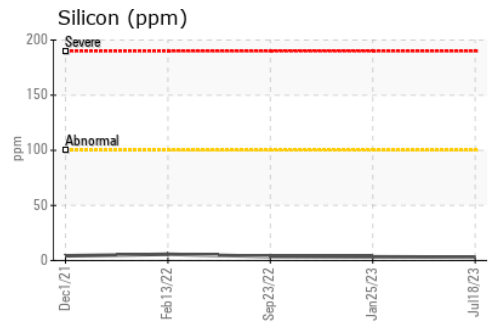
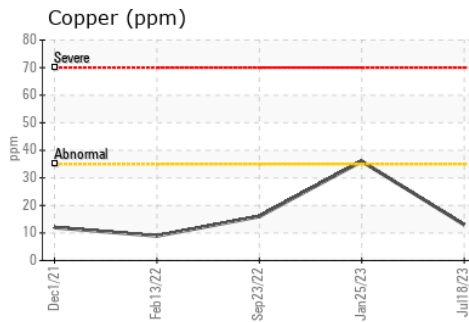
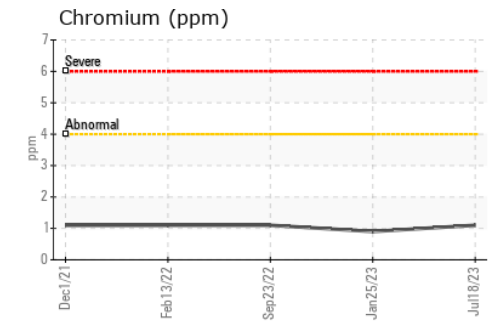
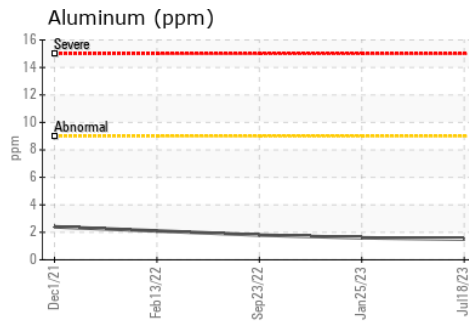
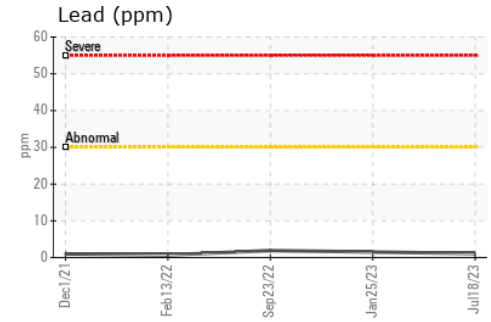
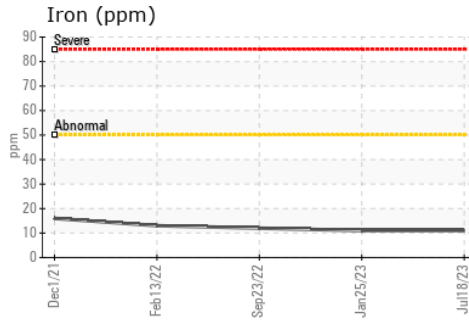
# OIL ANALYSIS REPORT



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

FLUID PROPERTIES		method	limit/base	current	history1	history2
Visc @ 100°C	cSt	ASTM D7279(m)	15.1	<b>15.2</b>	15.1	14.9

## GRAPHS



**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 GFL Environmental - 574 - Vancouver Fleet  
**Sample No.** : GFL0063661 **Received** : 02 Aug 2023  
**Lab Number** : 02573610 **Diagnosed** : 02 Aug 2023  
**Unique Number** : 5618661 **Diagnostician** : Kevin Marson  
**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.

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