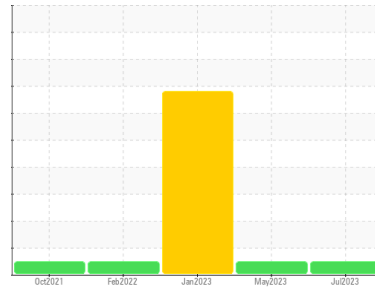




# OIL ANALYSIS REPORT

## Sample Rating Trend



**NORMAL**



Machine Id  
**901139**

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>GFL0084171</b>	GFL0073104	GFL0063609
Sample Date	Client Info		<b>26 Jul 2023</b>	10 May 2023	19 Jan 2023
Machine Age	hrs	Client Info	<b>5924</b>	5260	4168
Oil Age	hrs	Client Info	<b>0</b>	600	600
Oil Changed	Client Info		<b>N/A</b>	Changed	Changed
Sample Status			<b>NORMAL</b>	NORMAL	SEVERE

## WEAR METALS

	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185(m) >50	<b>6</b>	8	32
Chromium	ppm	ASTM D5185(m) >4	<b>1</b>	<1	2
Nickel	ppm	ASTM D5185(m) >2	<b>0</b>	0	<1
Titanium	ppm	ASTM D5185(m)	<b>0</b>	0	<1
Silver	ppm	ASTM D5185(m) >3	<b>0</b>	0	0
Aluminum	ppm	ASTM D5185(m) >9	<b>1</b>	1	3
Lead	ppm	ASTM D5185(m) >30	<b>3</b>	23	230
Copper	ppm	ASTM D5185(m) >35	<b>5</b>	12	58
Tin	ppm	ASTM D5185(m) >4	<b>&lt;1</b>	<1	2
Antimony	ppm	ASTM D5185(m)	<b>0</b>	<1	<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>10</b>	8	22
Barium	ppm	ASTM D5185(m) 5	<b>0</b>	0	0
Molybdenum	ppm	ASTM D5185(m) 50	<b>51</b>	54	60
Manganese	ppm	ASTM D5185(m) 0	<b>&lt;1</b>	<1	2
Magnesium	ppm	ASTM D5185(m) 560	<b>609</b>	668	701
Calcium	ppm	ASTM D5185(m) 1510	<b>1463</b>	1637	1930
Phosphorus	ppm	ASTM D5185(m) 780	<b>748</b>	846	990
Zinc	ppm	ASTM D5185(m) 870	<b>919</b>	983	1188
Sulfur	ppm	ASTM D5185(m) 2040	<b>1940</b>	2011	2098
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	6
Sodium	ppm	ASTM D5185(m)	<b>6</b>	7	10
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*	<b>&gt;20</b>	12.9	12.2
Sulfation	Abs/.1mm	ASTM D7415*	<b>&gt;30</b>	26.7	30.1

## FLUID DEGRADATION

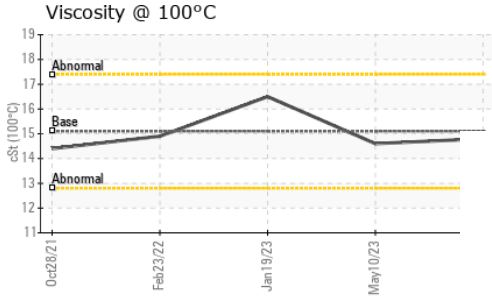
	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	ASTM D7414*	<b>&gt;25</b>	19.8	26.2

## VISUAL

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

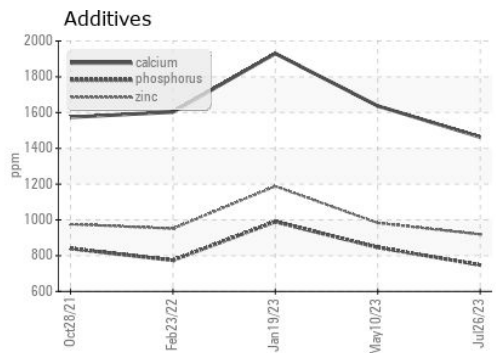
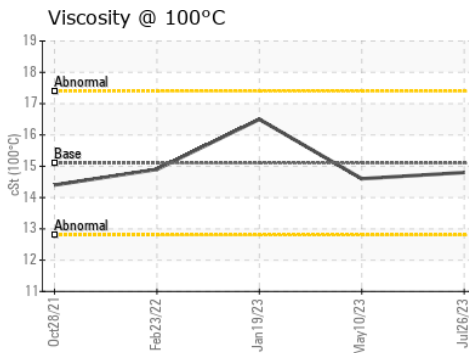
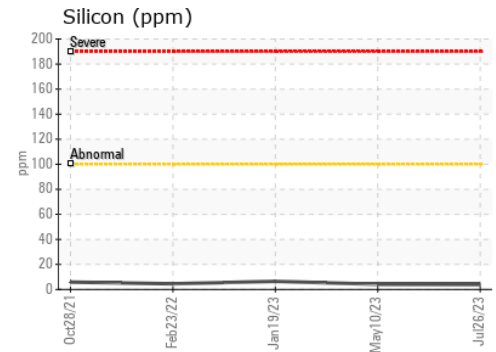
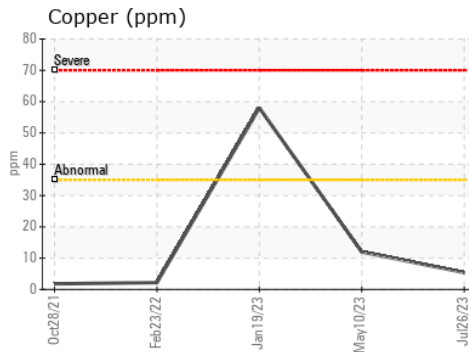
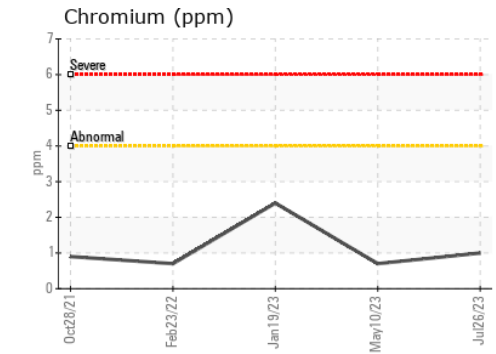
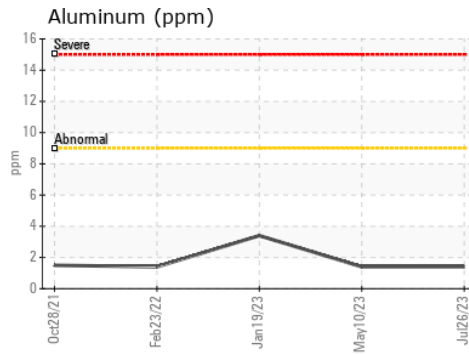
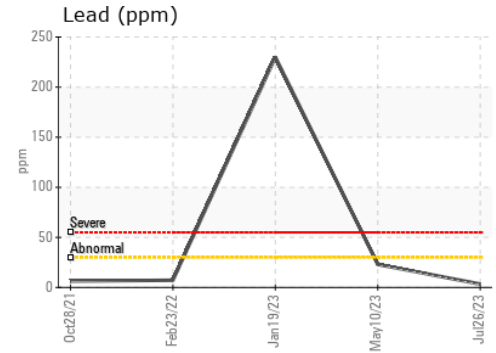
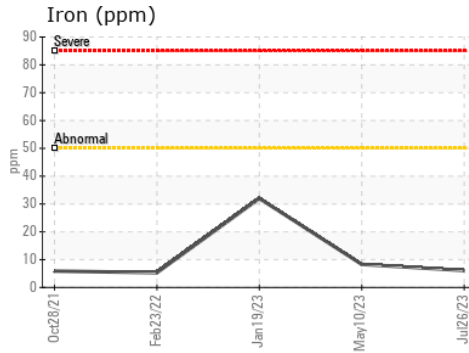


# OIL ANALYSIS REPORT



FLUID PROPERTIES		method	limit/base	current	history1	history2
Visc @ 100°C	cSt	ASTM D7279(m)	15.1	<b>14.8</b>	14.6	16.5

## GRAPHS



**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 GFL Environmental - 574 - Vancouver Fleet  
**Sample No.** : GFL0084171 **Received** : 02 Aug 2023  
**Lab Number** : 02573628 **Diagnosed** : 02 Aug 2023  
**Unique Number** : 5618679 **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.

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