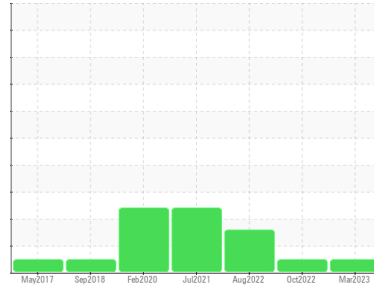




# OIL ANALYSIS REPORT

## Sample Rating Trend

**NORMAL**



Machine Id  
**9172**  
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>GFL0064334</b>	GFL0061003	GFL0054857
Sample Date	Client Info	<b>22 Mar 2023</b>	04 Oct 2022	24 Aug 2022
Machine Age	hrs	<b>1584</b>	235489	229905
Oil Age	hrs	<b>600</b>	0	0
Oil Changed	Client Info	<b>Changed</b>	Changed	Changed
Sample Status		<b>NORMAL</b>	NORMAL	ABNORMAL

## WEAR METALS

method	limit/base	current	history1	history2	
Iron	ppm	ASTM D5185(m) >45	<b>23</b>	17	▲ 50
Chromium	ppm	ASTM D5185(m) >4	<b>2</b>	2	▲ 6
Nickel	ppm	ASTM D5185(m) >4	<b>&lt;1</b>	<1	2
Titanium	ppm	ASTM D5185(m) >5	<b>&lt;1</b>	<1	<1
Silver	ppm	ASTM D5185(m) >3	<b>0</b>	0	0
Aluminum	ppm	ASTM D5185(m) >25	<b>5</b>	4	14
Lead	ppm	ASTM D5185(m) >45	<b>1</b>	1	6
Copper	ppm	ASTM D5185(m) >175	<b>6</b>	3	8
Tin	ppm	ASTM D5185(m) >4	<b>&lt;1</b>	<1	<1
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>10</b>	11	5
Barium	ppm	ASTM D5185(m) 5	<b>0</b>	0	0
Molybdenum	ppm	ASTM D5185(m) 50	<b>54</b>	50	55
Manganese	ppm	ASTM D5185(m) 0	<b>&lt;1</b>	<1	1
Magnesium	ppm	ASTM D5185(m) 560	<b>575</b>	567	578
Calcium	ppm	ASTM D5185(m) 1510	<b>1700</b>	1607	1700
Phosphorus	ppm	ASTM D5185(m) 780	<b>767</b>	797	721
Zinc	ppm	ASTM D5185(m) 870	<b>941</b>	911	920
Sulfur	ppm	ASTM D5185(m) 2040	<b>2042</b>	2067	2145
Lithium	ppm	ASTM D5185(m)	<b>&lt;1</b>	<1	<1

## CONTAMINANTS

method	limit/base	current	history1	history2	
Silicon	ppm	ASTM D5185(m) >25	<b>10</b>	4	8
Sodium	ppm	ASTM D5185(m)	<b>8</b>	7	11
Potassium	ppm	ASTM D5185(m) >20	<b>0</b>	0	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>	10.4
Sulfation	Abs/.1mm	ASTM D7415*	>30	<b>26.5</b>	20.2

## FLUID DEGRADATION

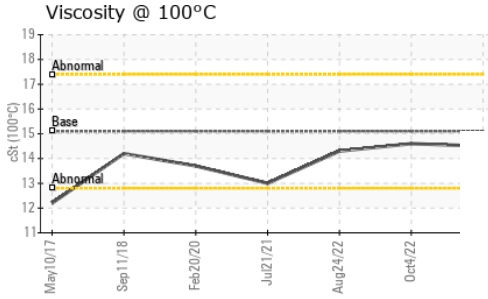
method	limit/base	current	history1	history2	
Oxidation	Abs/.1mm	ASTM D7414*	>25	<b>19.9</b>	17.6

## VISUAL

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

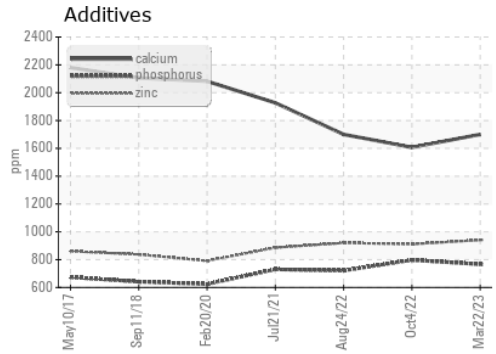
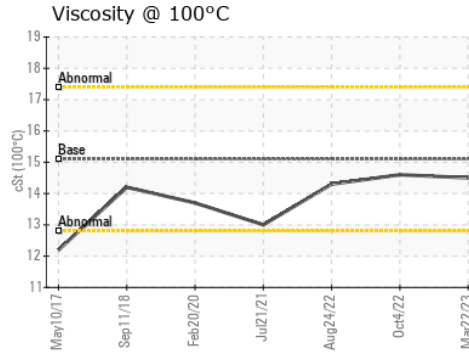
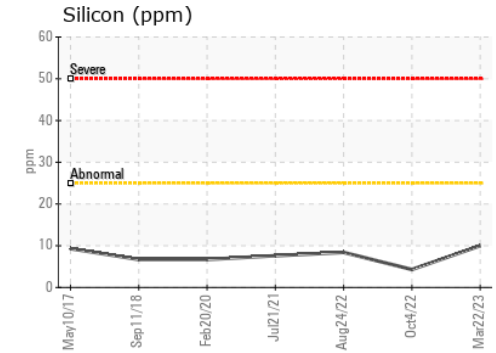
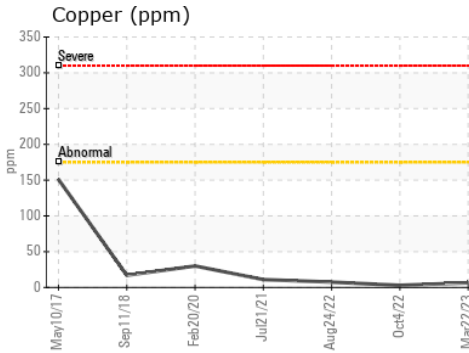
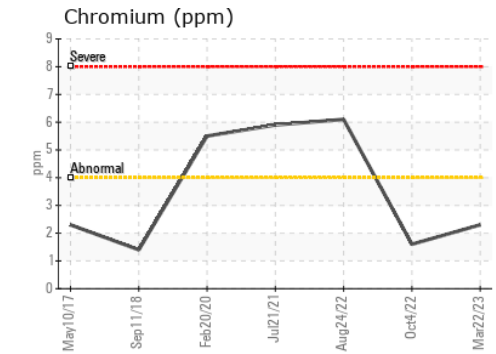
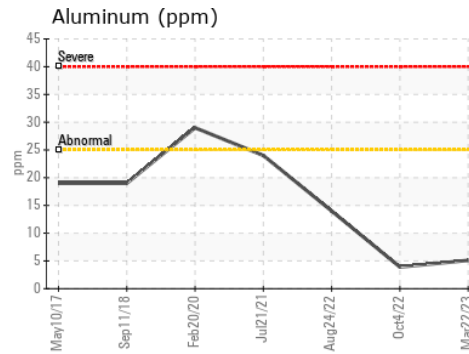
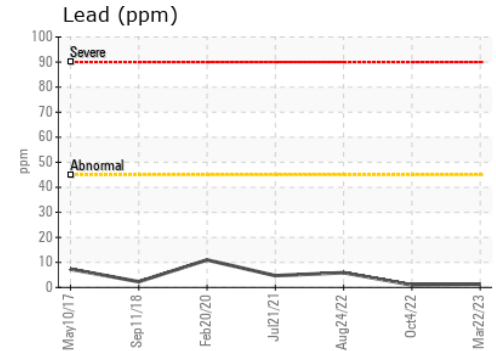
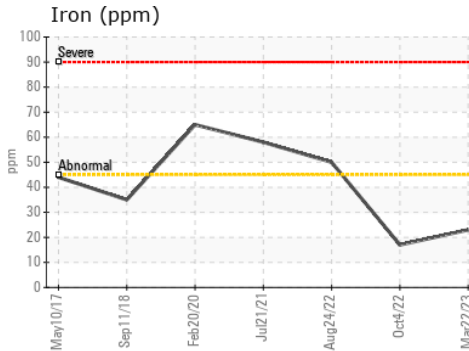


# OIL ANALYSIS REPORT



FLUID PROPERTIES		method	limit/base	current	history1	history2
Visc @ 100°C	cSt	ASTM D7279(m)	15.1	<b>14.5</b>	14.6	14.3

## GRAPHS



**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 **GFL Environmental - 209 - Hamilton**  
**Sample No.** : GFL0064334 **Received** : 28 Mar 2023 **560 Seaman Street**  
**Lab Number** : **02547982** **Diagnosed** : 28 Mar 2023 **Stoney Creek, ON**  
**Unique Number** : 5552992 **Diagnostician** : Wes Davis **CA L8E 3X7**  
**Test Package** : MOB 1 **Contact:** Fred Carleton  
**fred.carleton@gflenv.com**

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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