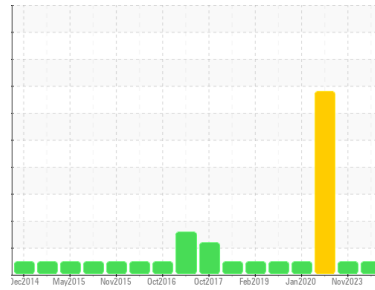




# OIL ANALYSIS REPORT

Sample Rating Trend



**NORMAL**



Machine Id  
**7937**

Component  
**Natural Gas Engine**

Fluid  
**PETRO CANADA DURON GEO LD 15W40 (24 LTR)**

## 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>GFL0113272</b>	GFL0097520	GFL0037572
Sample Date	Client Info	<b>16 Feb 2024</b>	14 Nov 2023	22 Oct 2021
Machine Age	hrs	<b>10029</b>	9205	0
Oil Age	hrs	<b>823</b>	1406	0
Oil Changed	Client Info	<b>Changed</b>	Changed	N/A
Sample Status		<b>NORMAL</b>	NORMAL	ABNORMAL

## CONTAMINATION

method	limit/base	current	history1	history2
Water	WC Method >0.1	<b>NEG</b>	NEG	NEG
Glycol	WC Method	---	---	▲ 0.033

## WEAR METALS

method	limit/base	current	history1	history2
Iron	ppm ASTM D5185(m) >50	<b>19</b>	46	20
Chromium	ppm ASTM D5185(m) >4	<b>1</b>	4	1
Nickel	ppm ASTM D5185(m) >2	<b>&lt;1</b>	1	<1
Titanium	ppm ASTM D5185(m)	<b>0</b>	0	<1
Silver	ppm ASTM D5185(m) >3	<b>0</b>	<1	0
Aluminum	ppm ASTM D5185(m) >9	<b>2</b>	3	2
Lead	ppm ASTM D5185(m) >30	<b>2</b>	16	6
Copper	ppm ASTM D5185(m) >35	<b>1</b>	5	13
Tin	ppm ASTM D5185(m) >4	<b>&lt;1</b>	<1	<1
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>8</b>	6	9
Barium	ppm ASTM D5185(m) 5	<b>0</b>	<1	0
Molybdenum	ppm ASTM D5185(m) 50	<b>52</b>	24	52
Manganese	ppm ASTM D5185(m) 0	<b>0</b>	<1	<1
Magnesium	ppm ASTM D5185(m) 560	<b>525</b>	239	630
Calcium	ppm ASTM D5185(m) 1510	<b>1756</b>	2299	1566
Phosphorus	ppm ASTM D5185(m) 780	<b>712</b>	868	812
Zinc	ppm ASTM D5185(m) 870	<b>951</b>	1077	988
Sulfur	ppm ASTM D5185(m) 2040	<b>2260</b>	2662	2137
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>	10	6
Sodium	ppm ASTM D5185(m)	<b>8</b>	8	▲ 106
Potassium	ppm ASTM D5185(m) >20	<b>2</b>	5	▲ 17

## INFRA-RED

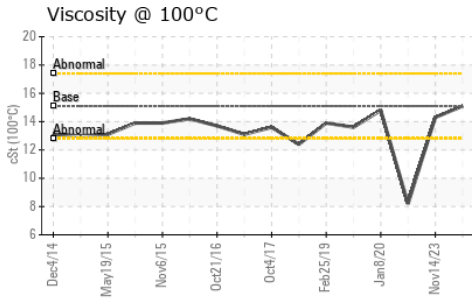
method	limit/base	current	history1	history2
Soot %	% ASTM D7844*	<b>0</b>	0	0
Nitration	Abs/cm ASTM D7624*	<b>12.3</b>	11.2	12.3
Sulfation	Abs/.1mm ASTM D7415*	<b>24.7</b>	28.6	21.1

## FLUID DEGRADATION

method	limit/base	current	history1	history2
Oxidation	Abs/.1mm ASTM D7414*	<b>20.1</b>	16.7	17.5



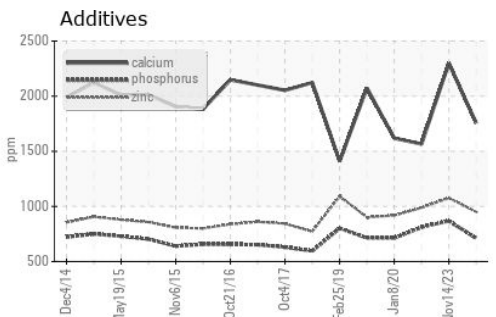
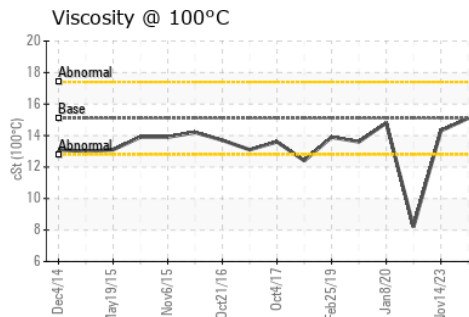
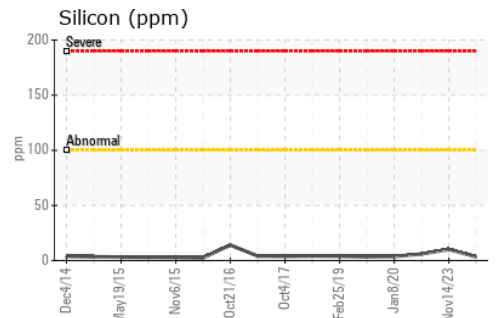
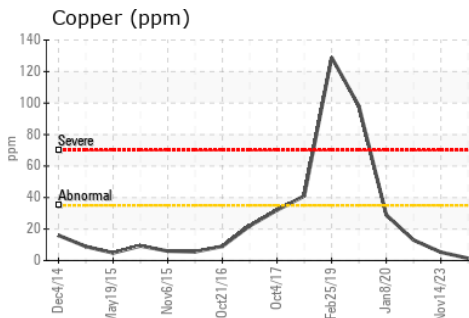
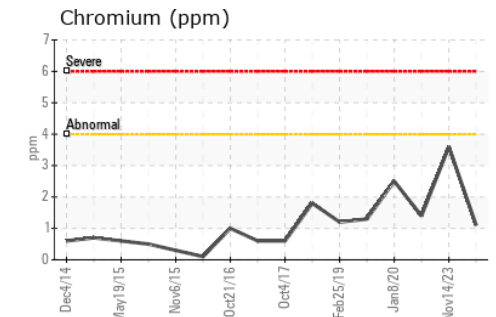
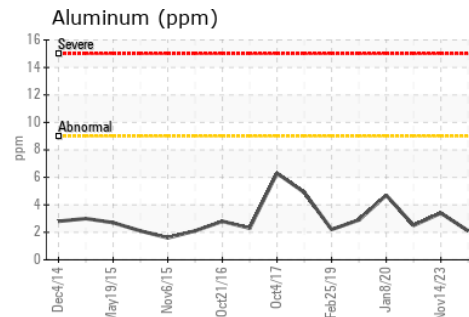
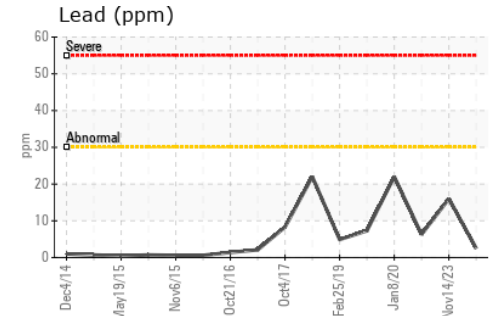
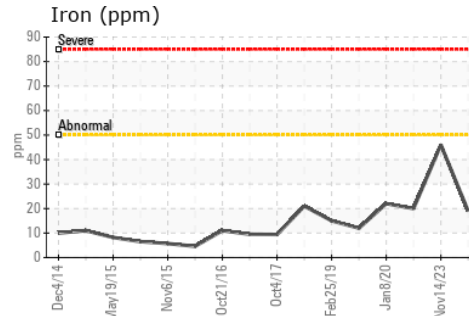
# OIL ANALYSIS REPORT



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	▲ 8.2

## GRAPHS



**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9  
**Sample No.** : GFL0113272 **Received** : 20 Feb 2024  
**Lab Number** : 02616629 **Tested** : 20 Feb 2024  
**Unique Number** : 5733739 **Diagnosed** : 20 Feb 2024 - Wes Davis  
**Test Package** : MOB 1

**GFL Environmental - 216**  
 15 Bermondsey Road  
 Toronto, ON  
 CA M4B 1Y9  
 Contact: Tom Hatzioannidis  
 thatzioannidis@gflenv.com  
 T: (416)678-9340  
 F:

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.