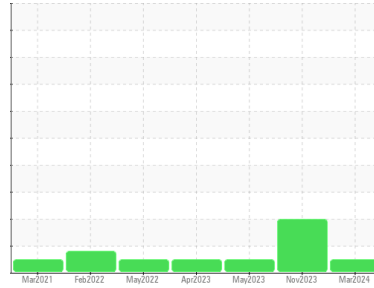




# OIL ANALYSIS REPORT

Sample Rating Trend

**NORMAL**



Machine Id  
**831001**  
 Component  
**Natural Gas Engine**  
 Fluid  
**PETRO CANADA DURON GEO LD 15W40 (--- 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>GFL0112548</b>	GFL0101742	GFL0059981
Sample Date	Client Info		<b>24 Mar 2024</b>	29 Nov 2023	18 May 2023
Machine Age	hrs	Client Info	<b>7358</b>	6880	4878
Oil Age	hrs	Client Info	<b>0</b>	0	0
Oil Changed	Client Info		<b>N/A</b>	N/A	N/A
Sample Status			<b>NORMAL</b>	ABNORMAL	NORMAL

## CONTAMINATION

	method	limit/base	current	history1	history2
Water	WC Method	>0.1	<b>NEG</b>	NEG	NEG
Glycol	WC Method		<b>---</b>	0.0	---

## WEAR METALS

	method	limit/base	current	history1	history2	
Iron	ppm	ASTM D5185(m)	>50	<b>16</b>	23	17
Chromium	ppm	ASTM D5185(m)	>4	<b>0</b>	1	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>	0	0
Aluminum	ppm	ASTM D5185(m)	>9	<b>3</b>	18	21
Lead	ppm	ASTM D5185(m)	>30	<b>0</b>	8	2
Copper	ppm	ASTM D5185(m)	>35	<b>1</b>	1	1
Tin	ppm	ASTM D5185(m)	>4	<b>0</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>22</b>	10	10
Barium	ppm	ASTM D5185(m)	5	<b>8</b>	<1	0
Molybdenum	ppm	ASTM D5185(m)	50	<b>48</b>	64	59
Manganese	ppm	ASTM D5185(m)	0	<b>2</b>	<1	1
Magnesium	ppm	ASTM D5185(m)	560	<b>524</b>	701	644
Calcium	ppm	ASTM D5185(m)	1510	<b>1502</b>	1897	1952
Phosphorus	ppm	ASTM D5185(m)	780	<b>687</b>	841	862
Zinc	ppm	ASTM D5185(m)	870	<b>830</b>	1081	1050
Sulfur	ppm	ASTM D5185(m)	2040	<b>1889</b>	2154	2169
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>12</b>	5	5
Sodium	ppm	ASTM D5185(m)		<b>4</b>	11	3
Potassium	ppm	ASTM D5185(m)	>20	<b>4</b>	33	30

## INFRA-RED

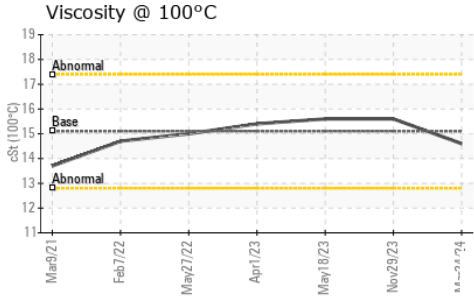
	method	limit/base	current	history1	history2	
Soot %	%	ASTM D7844*		<b>0</b>	0	0
Nitration	Abs/cm	ASTM D7624*	>20	<b>8.5</b>	13.7	12.5
Sulfation	Abs/.1mm	ASTM D7415*	>30	<b>18.9</b>	29.6	27.1

## FLUID DEGRADATION

	method	limit/base	current	history1	history2	
Oxidation	Abs/.1mm	ASTM D7414*	>25	<b>16.4</b>	▲ 26.0	22.5



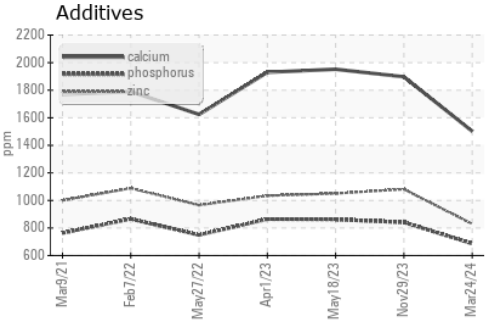
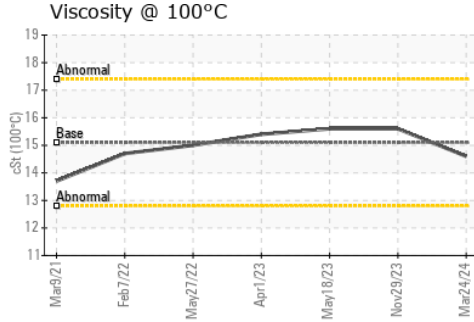
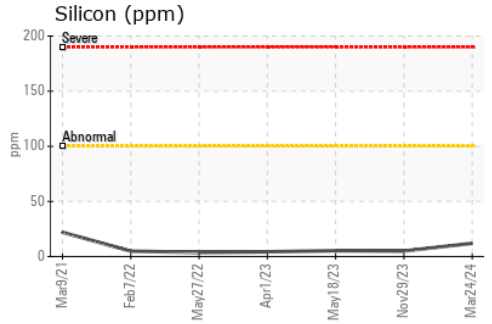
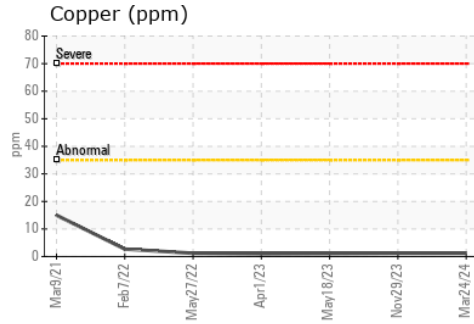
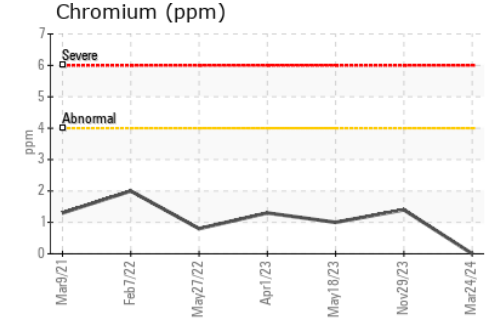
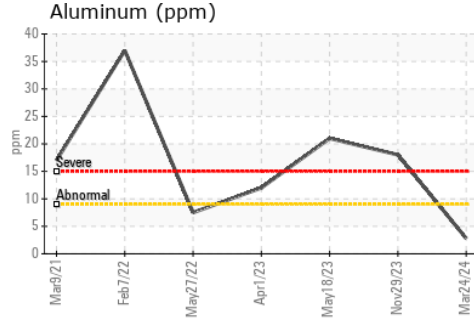
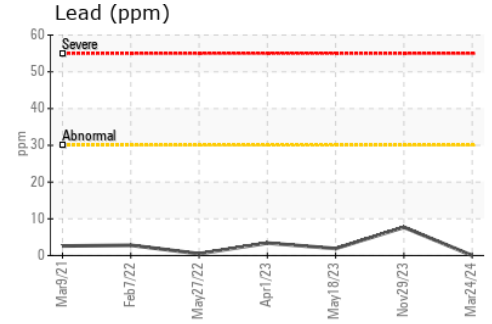
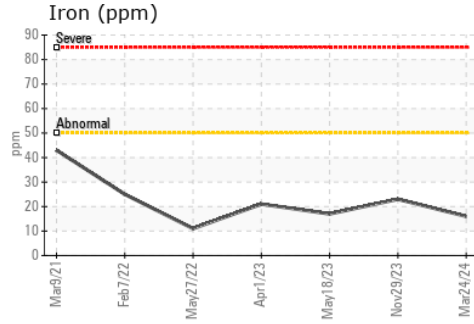
# OIL ANALYSIS REPORT



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	14.6	▲ 15.6

## GRAPHS



**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9    **GFL Environmental - 554 - Edmonton SW**  
**Sample No.** : GFL0112548    **Received** : 27 Mar 2024    8409 -15th Street NW  
**Lab Number** : 02624920    **Tested** : 27 Mar 2024    Edmonton, AB  
**Unique Number** : 5750039    **Diagnosed** : 27 Mar 2024 - Wes Davis    CA T6P 0B8  
**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.