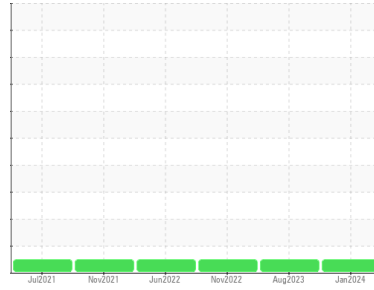




# OIL ANALYSIS REPORT

Sample Rating Trend

**NORMAL**



Machine Id  
**830000**  
 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>GFL0102648</b>	GFL0090601	GFL0059956
Sample Date	Client Info		<b>20 Jan 2024</b>	23 Aug 2023	20 Nov 2022
Machine Age	hrs	Client Info	<b>11627</b>	10485	8328
Oil Age	hrs	Client Info	<b>0</b>	0	0
Oil Changed	Client Info		<b>N/A</b>	Changed	N/A
Sample Status			<b>NORMAL</b>	NORMAL	NORMAL

## CONTAMINATION

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

## WEAR METALS

	method	limit/base	current	history1	history2	
Iron	ppm	ASTM D5185(m)	>50	<b>15</b>	18	12
Chromium	ppm	ASTM D5185(m)	>4	<b>2</b>	1	<1
Nickel	ppm	ASTM D5185(m)	>2	<b>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>	2	5
Lead	ppm	ASTM D5185(m)	>30	<b>2</b>	2	2
Copper	ppm	ASTM D5185(m)	>35	<b>2</b>	2	1
Tin	ppm	ASTM D5185(m)	>4	<b>1</b>	1	<1
Antimony	ppm	ASTM D5185(m)		<b>0</b>	0	<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>7</b>	9	10
Barium	ppm	ASTM D5185(m)	5	<b>&lt;1</b>	5	0
Molybdenum	ppm	ASTM D5185(m)	50	<b>55</b>	51	58
Manganese	ppm	ASTM D5185(m)	0	<b>&lt;1</b>	2	<1
Magnesium	ppm	ASTM D5185(m)	560	<b>579</b>	539	628
Calcium	ppm	ASTM D5185(m)	1510	<b>1707</b>	1568	1798
Phosphorus	ppm	ASTM D5185(m)	780	<b>739</b>	708	838
Zinc	ppm	ASTM D5185(m)	870	<b>931</b>	874	1011
Sulfur	ppm	ASTM D5185(m)	2040	<b>2103</b>	1891	2075
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>5</b>	14	6
Sodium	ppm	ASTM D5185(m)		<b>10</b>	4	4
Potassium	ppm	ASTM D5185(m)	>20	<b>3</b>	2	5

## INFRA-RED

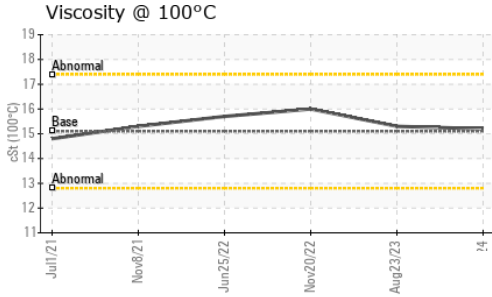
	method	limit/base	current	history1	history2	
Soot %	%	ASTM D7844*		<b>0</b>	0	0
Nitration	Abs/cm	ASTM D7624*	>20	<b>12.5</b>	11.1	12.5
Sulfation	Abs./1mm	ASTM D7415*	>30	<b>26.5</b>	24.6	25.8

## FLUID DEGRADATION

	method	limit/base	current	history1	history2	
Oxidation	Abs./1mm	ASTM D7414*	>25	<b>22.7</b>	19.8	22.2



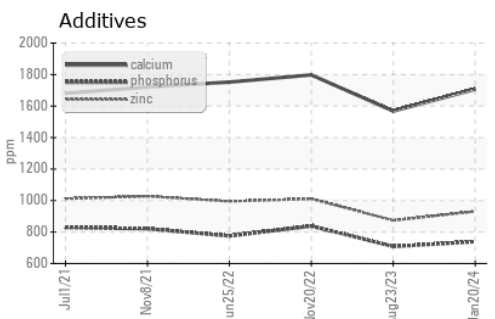
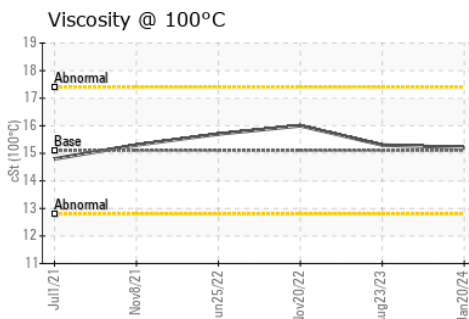
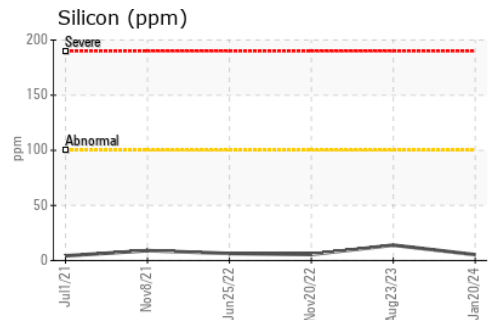
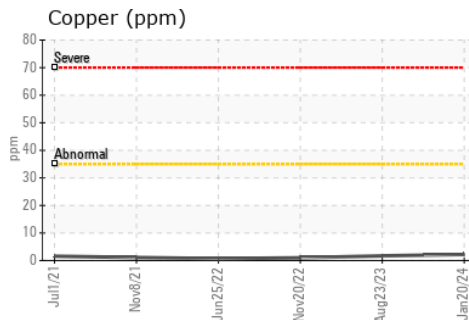
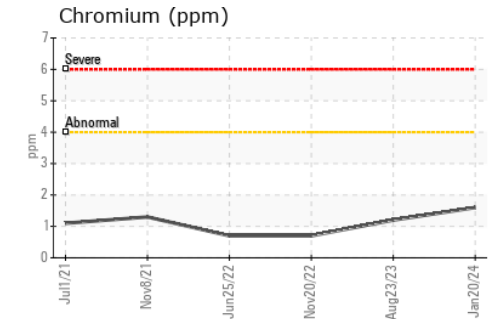
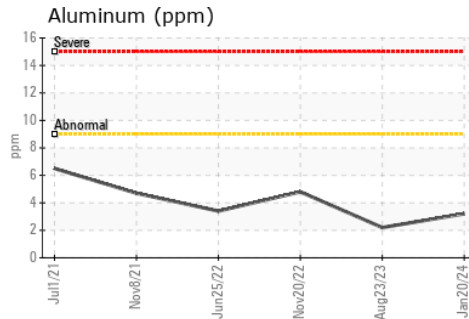
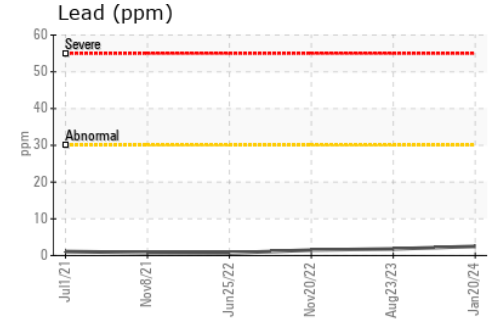
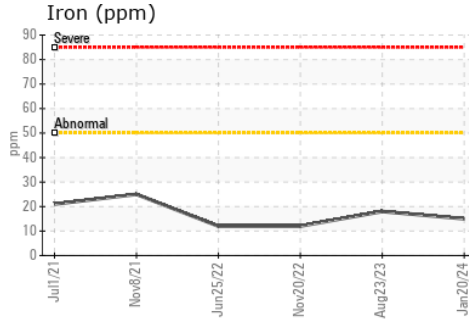
# OIL ANALYSIS REPORT



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	15.2	15.3

## GRAPHS



ISO 17025:2017  
Accredited  
Laboratory

**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 GFL Environmental - 554 - Edmonton SW  
**Sample No.** : GFL0102648 **Received** : 26 Jan 2024  
**Lab Number** : 02611369 **Diagnosed** : 26 Jan 2024  
**Unique Number** : 5720464 **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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