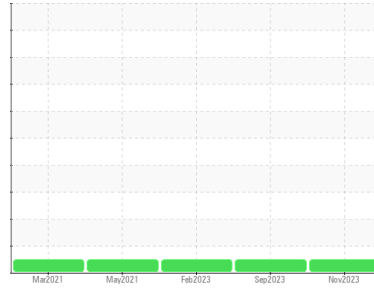




# OIL ANALYSIS REPORT

Sample Rating Trend

**NORMAL**



Machine Id  
**830003**  
 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>GFL0097633</b>	GFL0093903	GFL0064067
Sample Date	Client Info		<b>18 Nov 2023</b>	14 Sep 2023	16 Feb 2023
Machine Age	hrs	Client Info	<b>7458</b>	137782	5967
Oil Age	hrs	Client Info	<b>0</b>	0	0
Oil Changed	Client Info		<b>Changed</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>10</b>	22	20
Chromium	ppm	ASTM D5185(m) >4	<b>&lt;1</b>	<1	2
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>&lt;1</b>	0	0
Aluminum	ppm	ASTM D5185(m) >9	<b>1</b>	1	2
Lead	ppm	ASTM D5185(m) >30	<b>1</b>	4	4
Copper	ppm	ASTM D5185(m) >35	<b>&lt;1</b>	2	1
Tin	ppm	ASTM D5185(m) >4	<b>&lt;1</b>	2	<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>11</b>	9	8
Barium	ppm	ASTM D5185(m) 5	<b>&lt;1</b>	6	0
Molybdenum	ppm	ASTM D5185(m) 50	<b>51</b>	51	61
Manganese	ppm	ASTM D5185(m) 0	<b>&lt;1</b>	3	<1
Magnesium	ppm	ASTM D5185(m) 560	<b>574</b>	525	682
Calcium	ppm	ASTM D5185(m) 1510	<b>1554</b>	1568	1894
Phosphorus	ppm	ASTM D5185(m) 780	<b>709</b>	643	901
Zinc	ppm	ASTM D5185(m) 870	<b>925</b>	871	1056
Sulfur	ppm	ASTM D5185(m) 2040	<b>2030</b>	1902	2158
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>	16	5
Sodium	ppm	ASTM D5185(m)	<b>6</b>	3	12
Potassium	ppm	ASTM D5185(m) >20	<b>0</b>	0	<1

## INFRA-RED

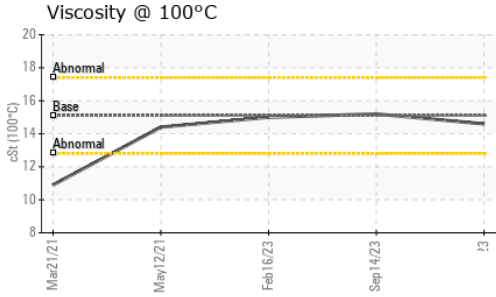
	method	limit/base	current	history1	history2
Soot %	%	ASTM D7844*	<b>0</b>	0	0
Nitration	Abs/cm	ASTM D7624*	<b>10.0</b>	10.3	7.8
Sulfation	Abs/.1mm	ASTM D7415*	<b>20.3</b>	20.2	20.6

## FLUID DEGRADATION

	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	ASTM D7414*	<b>17.3</b>	17.4	12.7



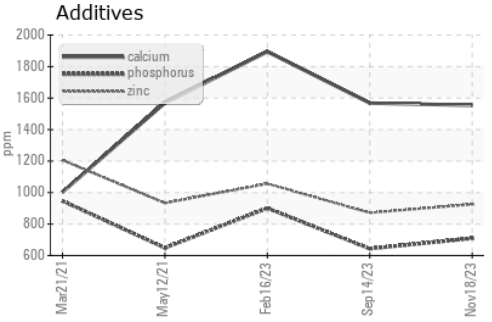
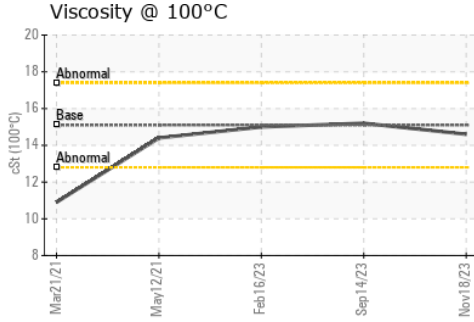
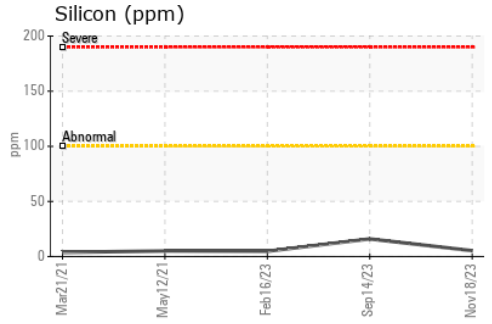
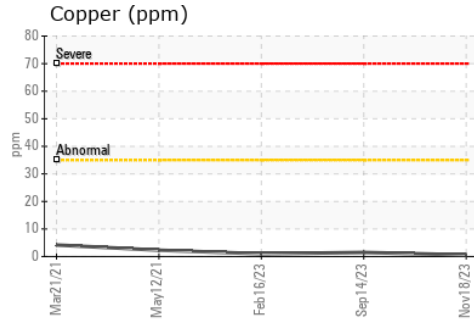
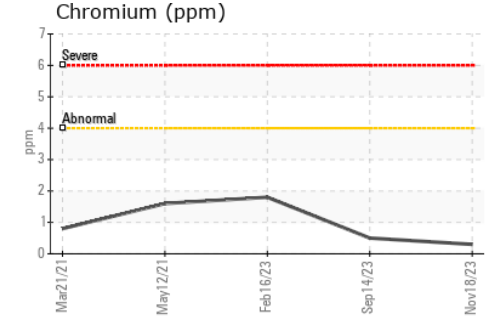
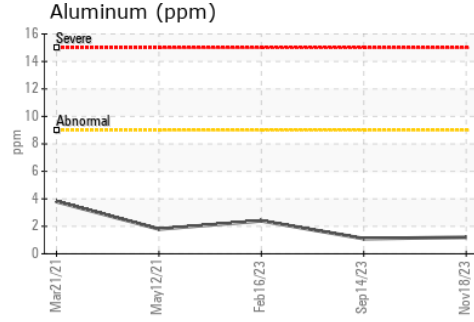
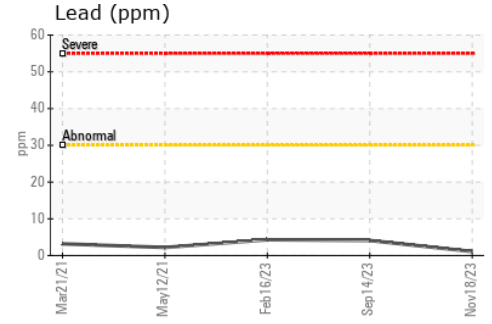
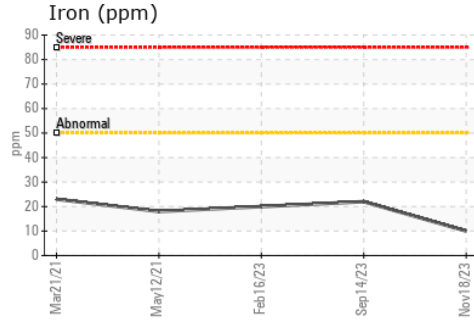
# OIL ANALYSIS REPORT



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	15.2

## GRAPHS



**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 **GFL Environmental - 554 - Edmonton SW**  
**Sample No.** : GFL0097633 **Received** : 24 Nov 2023 **8409 -15th Street NW**  
**Lab Number** : 02598756 **Diagnosed** : 24 Nov 2023 **Edmonton, AB**  
**Unique Number** : 5683836 **Diagnostician** : Wes Davis **CA T6P 0B8**  
**Test Package** : MOB 1 **Contact:** Tim Greig **tgreg@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.