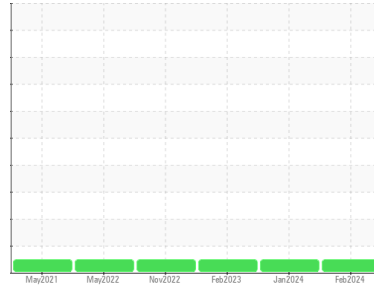




# OIL ANALYSIS REPORT

Sample Rating Trend

**NORMAL**



Machine Id  
**830012**  
 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>GFL0102661</b>	GFL0102636	GFL0064105
Sample Date	Client Info		<b>24 Feb 2024</b>	08 Jan 2024	16 Feb 2023
Machine Age	hrs	Client Info	<b>9455</b>	9150	0
Oil Age	hrs	Client Info	<b>0</b>	0	7037
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>16</b>	12	12
Chromium	ppm	ASTM D5185(m) >4	<b>&lt;1</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>&lt;1</b>	0	0
Aluminum	ppm	ASTM D5185(m) >9	<b>2</b>	2	2
Lead	ppm	ASTM D5185(m) >30	<b>&lt;1</b>	<1	2
Copper	ppm	ASTM D5185(m) >35	<b>&lt;1</b>	1	<1
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>12</b>	23	13
Barium	ppm	ASTM D5185(m) 5	<b>&lt;1</b>	3	0
Molybdenum	ppm	ASTM D5185(m) 50	<b>52</b>	48	55
Manganese	ppm	ASTM D5185(m) 0	<b>&lt;1</b>	2	<1
Magnesium	ppm	ASTM D5185(m) 560	<b>548</b>	537	586
Calcium	ppm	ASTM D5185(m) 1510	<b>1598</b>	1520	1746
Phosphorus	ppm	ASTM D5185(m) 780	<b>691</b>	712	796
Zinc	ppm	ASTM D5185(m) 870	<b>853</b>	817	965
Sulfur	ppm	ASTM D5185(m) 2040	<b>2059</b>	2051	2060
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>11</b>	17	5
Sodium	ppm	ASTM D5185(m)	<b>7</b>	7	13
Potassium	ppm	ASTM D5185(m) >20	<b>&lt;1</b>	1	0

## INFRA-RED

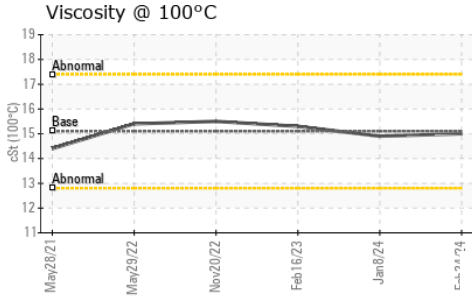
	method	limit/base	current	history1	history2
Soot %	%	ASTM D7844*	<b>0</b>	0	0
Nitration	Abs/cm	ASTM D7624*	<b>&gt;20</b>	7.8	6.3
Sulfation	Abs/.1mm	ASTM D7415*	<b>&gt;30</b>	19.3	17.3

## FLUID DEGRADATION

	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	ASTM D7414*	<b>&gt;25</b>	16.5	10.3



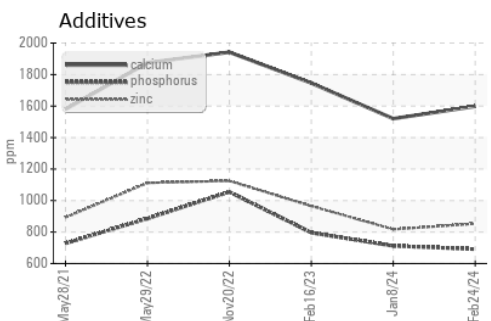
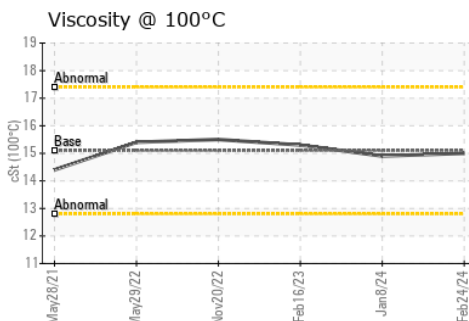
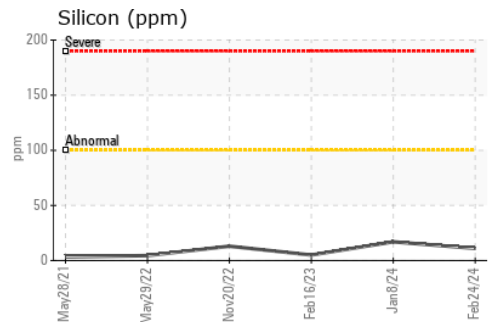
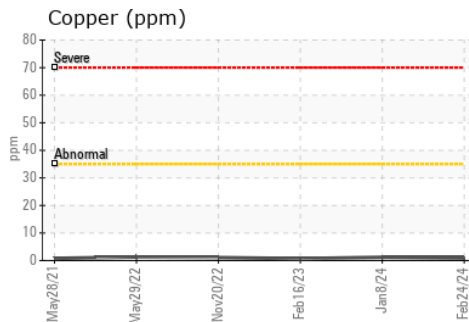
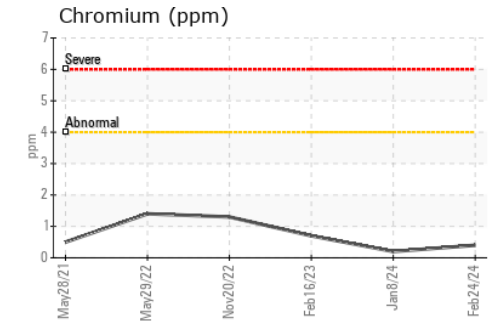
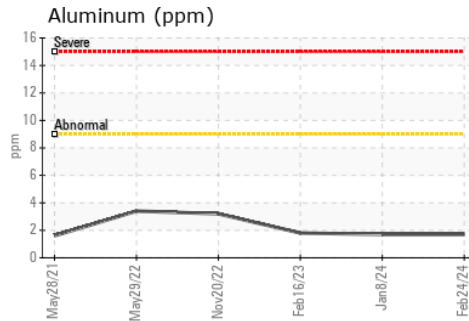
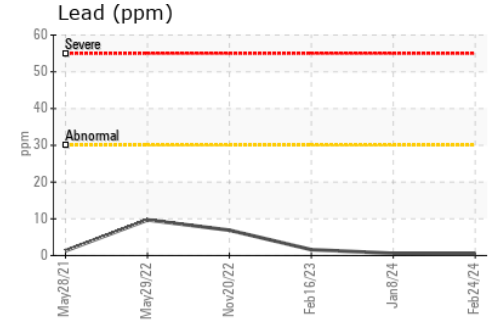
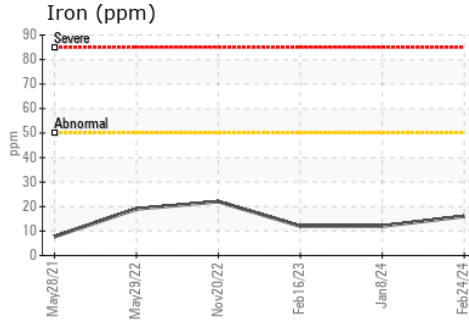
# OIL ANALYSIS REPORT



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	15.0	14.9

## GRAPHS



**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9    **GFL Environmental - 554 - Edmonton SW**  
**Sample No.** : GFL0102661    **Received** : 06 Mar 2024    8409 -15th Street NW  
**Lab Number** : 02620179    **Tested** : 06 Mar 2024    Edmonton, AB  
**Unique Number** : 5737289    **Diagnosed** : 06 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.

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 F: