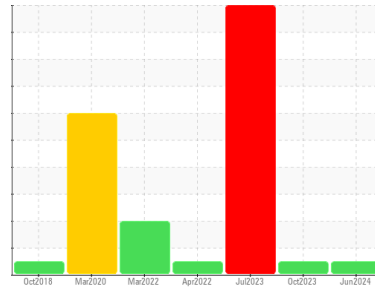




# OIL ANALYSIS REPORT

Sample Rating Trend



**NORMAL**



Machine Id  
**9148**  
 Component  
**Natural Gas Engine**  
 Fluid  
**PETRO CANADA DURON GEO LD 15W40 (27 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>GFL0061146</b>	GFL0061111	GFL0074287
Sample Date	Client Info		<b>14 Jun 2024</b>	02 Oct 2023	11 Jul 2023
Machine Age	hrs	Client Info	<b>19386</b>	17587	17014
Oil Age	hrs	Client Info	<b>1209</b>	573	2447
Oil Changed	Client Info		<b>Changed</b>	Changed	Changed
Sample Status			<b>NORMAL</b>	NORMAL	SEVERE

## CONTAMINATION

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

## WEAR METALS

	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185(m) >50	<b>22</b>	23	▲ 110
Chromium	ppm	ASTM D5185(m) >4	<b>1</b>	2	▲ 7
Nickel	ppm	ASTM D5185(m) >2	<b>1</b>	<1	▲ 3
Titanium	ppm	ASTM D5185(m)	<b>0</b>	0	<1
Silver	ppm	ASTM D5185(m) >3	<b>&lt;1</b>	<1	<1
Aluminum	ppm	ASTM D5185(m) >9	<b>7</b>	5	▲ 21
Lead	ppm	ASTM D5185(m) >30	<b>10</b>	4	18
Copper	ppm	ASTM D5185(m) >35	<b>17</b>	91	223
Tin	ppm	ASTM D5185(m) >4	<b>&lt;1</b>	<1	2
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>6</b>	7	4
Barium	ppm	ASTM D5185(m) 5	<b>0</b>	<1	0
Molybdenum	ppm	ASTM D5185(m) 50	<b>55</b>	53	59
Manganese	ppm	ASTM D5185(m) 0	<b>&lt;1</b>	<1	4
Magnesium	ppm	ASTM D5185(m) 560	<b>582</b>	574	657
Calcium	ppm	ASTM D5185(m) 1510	<b>1722</b>	1633	1668
Phosphorus	ppm	ASTM D5185(m) 780	<b>726</b>	664	996
Zinc	ppm	ASTM D5185(m) 870	<b>935</b>	875	947
Sulfur	ppm	ASTM D5185(m) 2040	<b>1936</b>	1723	1939
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>	6	10
Sodium	ppm	ASTM D5185(m)	<b>10</b>	8	10
Potassium	ppm	ASTM D5185(m) >20	<b>&lt;1</b>	<1	<1

## INFRA-RED

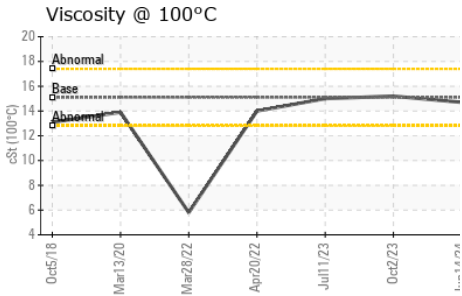
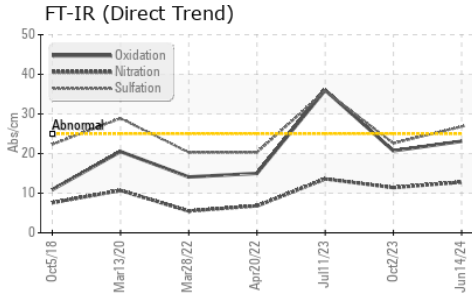
	method	limit/base	current	history1	history2
Soot %	%	ASTM D7844*	<b>0</b>	0	0
Nitration	Abs/cm	ASTM D7624*	<b>12.8</b>	11.4	13.6
Sulfation	Abs/.1mm	ASTM D7415*	<b>26.8</b>	22.6	35.8

## FLUID DEGRADATION

	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	ASTM D7414*	<b>23.1</b>	20.7	36.0



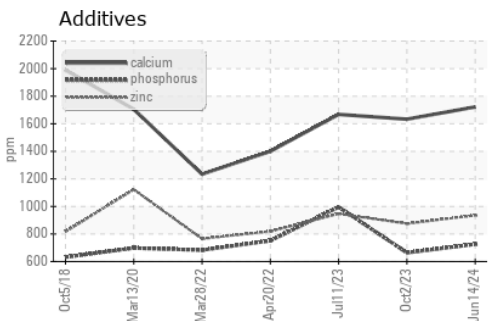
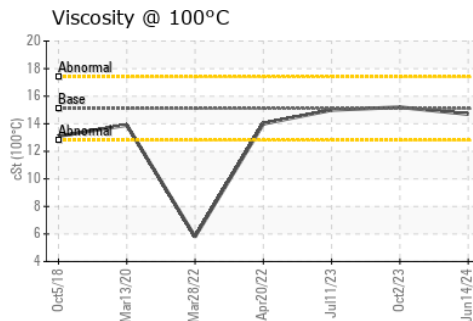
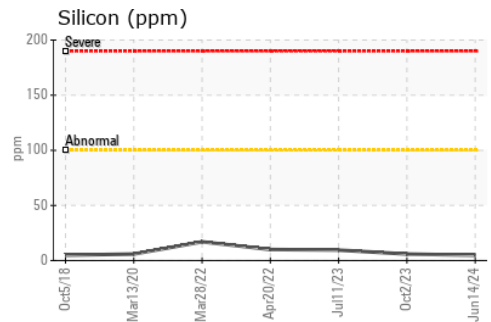
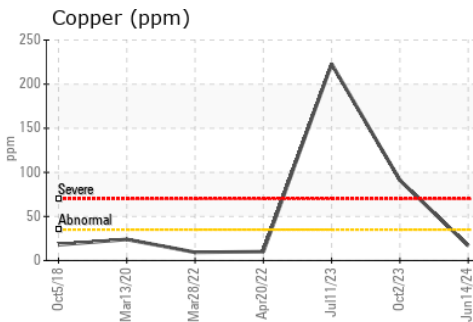
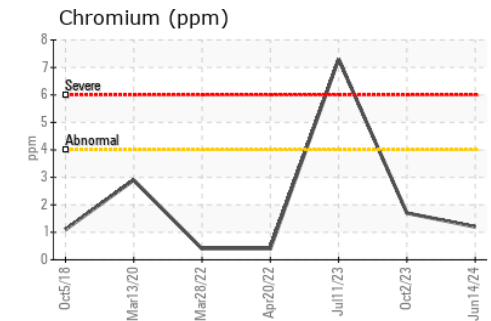
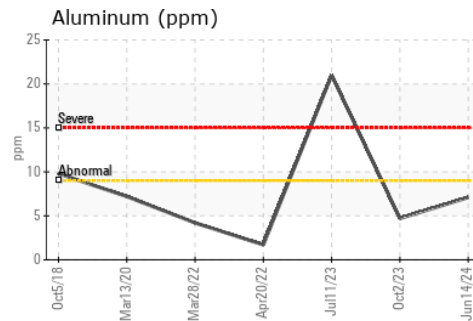
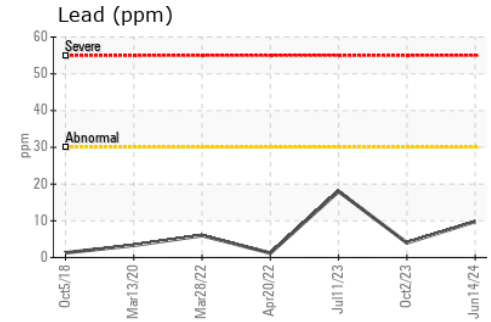
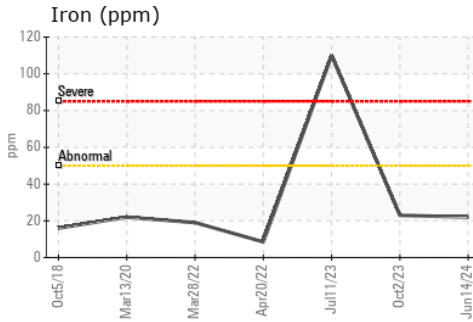
# OIL ANALYSIS REPORT



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	14.7	15.2

## GRAPHS



**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9  
**Sample No.** : GFL0061146 **Received** : 17 Jun 2024  
**Lab Number** : 02642314 **Tested** : 18 Jun 2024  
**Unique Number** : 5799853 **Diagnosed** : 18 Jun 2024 - Wes Davis  
**Test Package** : MOB 1

**GFL Environmental - 216**  
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 Toronto, ON  
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 Contact: Tom Hatzioannidis  
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 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.