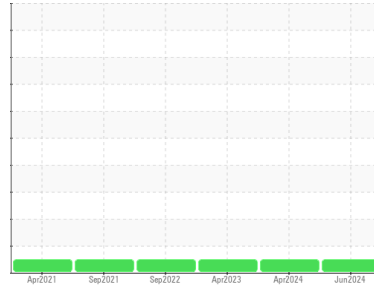




# OIL ANALYSIS REPORT

## Sample Rating Trend



**NORMAL**



Machine Id

**730000**

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>GFL0119029</b>	GFL0112491	GFL0077981
Sample Date	Client Info		<b>21 Jun 2024</b>	29 Apr 2024	21 Apr 2023
Machine Age	hrs	Client Info	<b>9313</b>	9087	7678
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>7</b>	18	18
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>0</b>	0	0
Aluminum	ppm	ASTM D5185(m)	>9	<b>1</b>	2	2
Lead	ppm	ASTM D5185(m)	>30	<b>&lt;1</b>	2	3
Copper	ppm	ASTM D5185(m)	>35	<b>&lt;1</b>	2	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>22</b>	8	10
Barium	ppm	ASTM D5185(m)	5	<b>&lt;1</b>	2	0
Molybdenum	ppm	ASTM D5185(m)	50	<b>44</b>	52	60
Manganese	ppm	ASTM D5185(m)	0	<b>&lt;1</b>	1	1
Magnesium	ppm	ASTM D5185(m)	560	<b>520</b>	504	633
Calcium	ppm	ASTM D5185(m)	1510	<b>1466</b>	1591	1917
Phosphorus	ppm	ASTM D5185(m)	780	<b>693</b>	634	819
Zinc	ppm	ASTM D5185(m)	870	<b>816</b>	875	1017
Sulfur	ppm	ASTM D5185(m)	2040	<b>1883</b>	1983	2181
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>3</b>	12	5
Sodium	ppm	ASTM D5185(m)		<b>7</b>	18	9
Potassium	ppm	ASTM D5185(m)	>20	<b>&lt;1</b>	3	0

## INFRA-RED

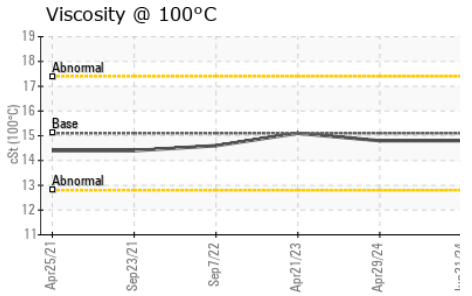
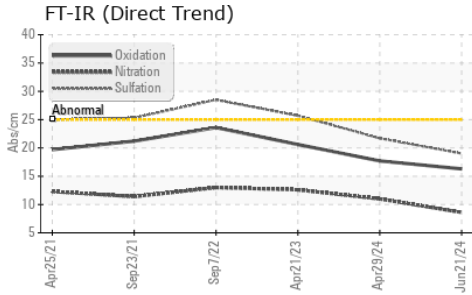
	method	limit/base	current	history1	history2	
Soot %	%	ASTM D7844*		<b>0</b>	0	0
Nitration	Abs/cm	ASTM D7624*	>20	<b>8.6</b>	11.0	12.6
Sulfation	Abs/.1mm	ASTM D7415*	>30	<b>19.0</b>	21.7	25.7

## FLUID DEGRADATION

	method	limit/base	current	history1	history2	
Oxidation	Abs/.1mm	ASTM D7414*	>25	<b>16.3</b>	17.7	20.6



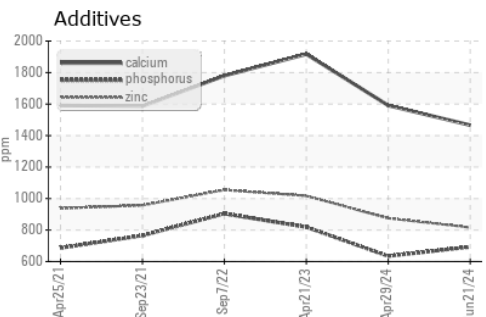
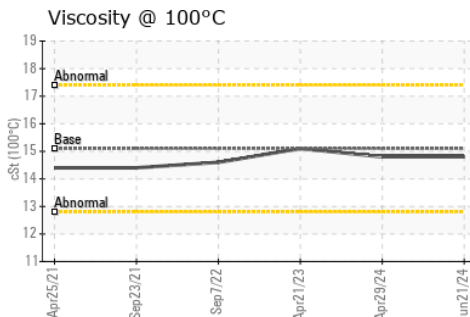
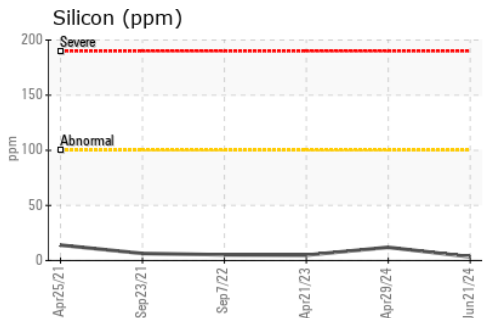
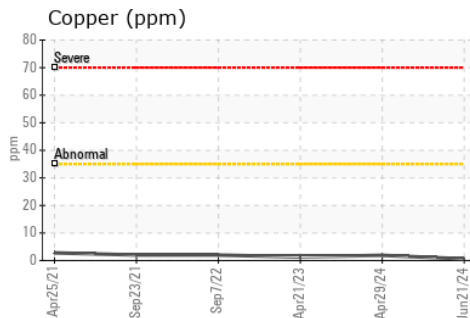
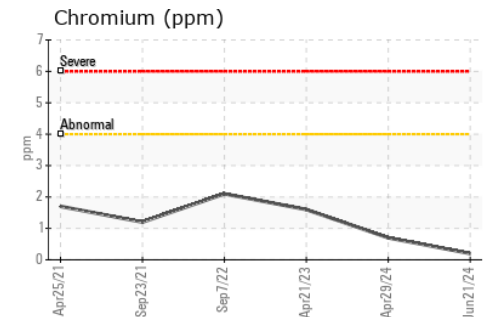
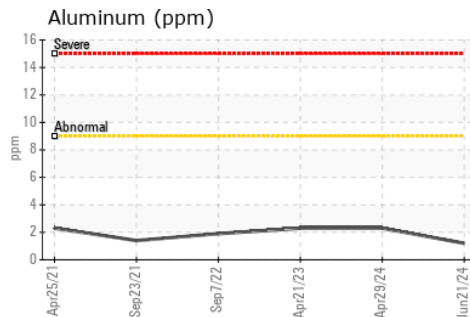
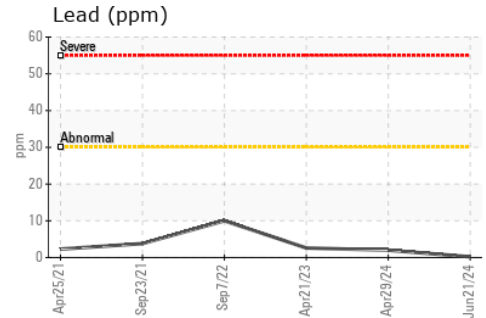
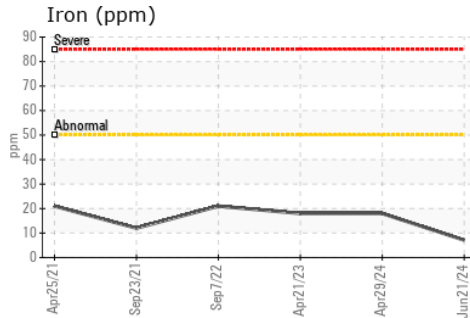
# OIL ANALYSIS REPORT



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	14.8	15.1

## GRAPHS



**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9  
**Sample No.** : GFL0119029  
**Lab Number** : 02646641  
**Unique Number** : 5812193  
**Test Package** : MOB 1

**GFL Environmental - 554 - Edmonton SW**  
 8409 -15th Street NW  
 Edmonton, AB  
 CA T6P 0B8  
 Contact: Tim Greig  
 tgreig@gflenv.com  
 T: (780)231-0521  
 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.