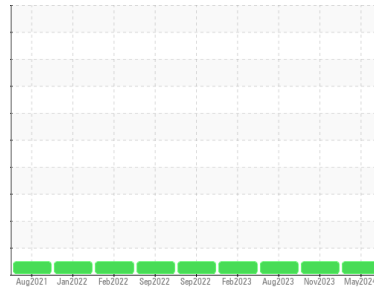




# OIL ANALYSIS REPORT

Sample Rating Trend



**NORMAL**



Machine Id  
**830004**  
 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>GFL0112512</b>	GFL0097611	GFL0090627
Sample Date	Client Info		<b>28 May 2024</b>	12 Nov 2023	20 Aug 2023
Machine Age	hrs	Client Info	<b>9579</b>	0	8111
Oil Age	hrs	Client Info	<b>0</b>	0	0
Oil Changed	Client Info		<b>Changed</b>	N/A	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>	15	22
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>0</b>	<1	0
Aluminum	ppm	ASTM D5185(m)	>9	<b>1</b>	2	2
Lead	ppm	ASTM D5185(m)	>30	<b>&lt;1</b>	<1	<1
Copper	ppm	ASTM D5185(m)	>35	<b>2</b>	2	2
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>16</b>	14	13
Barium	ppm	ASTM D5185(m)	5	<b>0</b>	<1	3
Molybdenum	ppm	ASTM D5185(m)	50	<b>59</b>	54	53
Manganese	ppm	ASTM D5185(m)	0	<b>&lt;1</b>	<1	3
Magnesium	ppm	ASTM D5185(m)	560	<b>616</b>	560	553
Calcium	ppm	ASTM D5185(m)	1510	<b>1849</b>	1671	1595
Phosphorus	ppm	ASTM D5185(m)	780	<b>794</b>	701	765
Zinc	ppm	ASTM D5185(m)	870	<b>1010</b>	960	892
Sulfur	ppm	ASTM D5185(m)	2040	<b>2097</b>	2027	1992
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>	6	17
Sodium	ppm	ASTM D5185(m)		<b>8</b>	7	6
Potassium	ppm	ASTM D5185(m)	>20	<b>&lt;1</b>	<1	2

## INFRA-RED

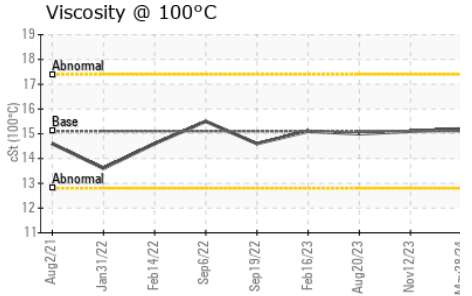
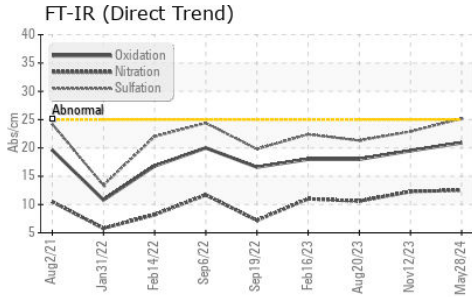
	method	limit/base	current	history1	history2	
Soot %	%	ASTM D7844*		<b>0</b>	0	0
Nitration	Abs/cm	ASTM D7624*	>20	<b>12.5</b>	12.3	10.6
Sulfation	Abs/.1mm	ASTM D7415*	>30	<b>25.2</b>	22.9	21.3

## FLUID DEGRADATION

	method	limit/base	current	history1	history2	
Oxidation	Abs/.1mm	ASTM D7414*	>25	<b>20.9</b>	19.5	18.0



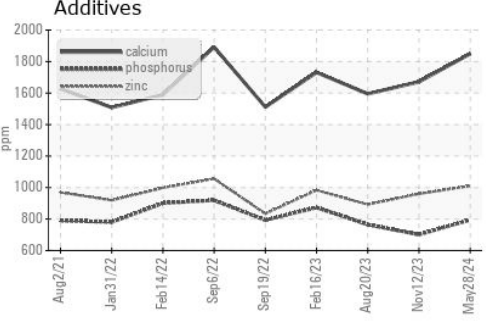
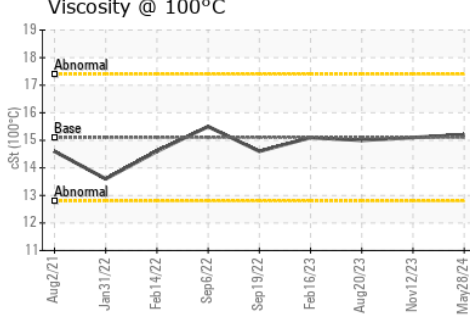
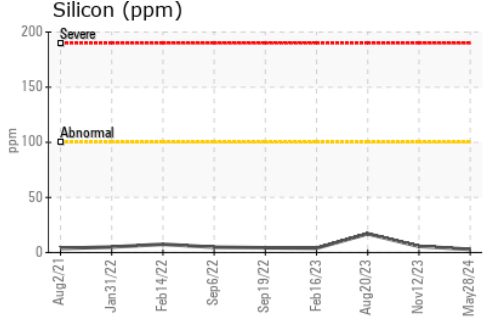
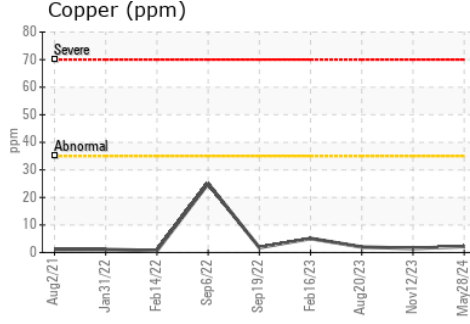
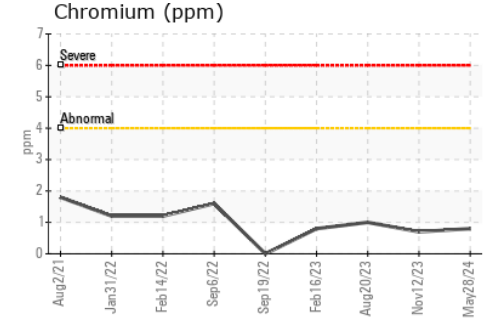
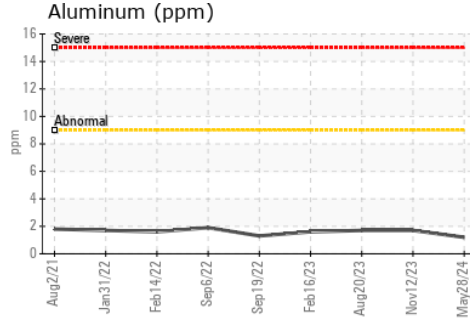
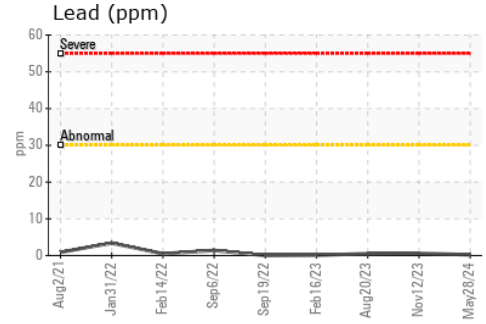
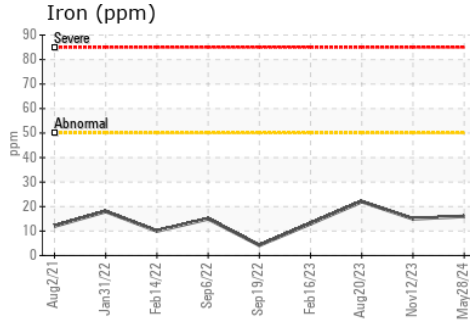
# OIL ANALYSIS REPORT



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	15.2	15.1

## GRAPHS



**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9  
**Sample No.** : GFL0112512  
**Lab Number** : 02639778  
**Unique Number** : 5788940  
**Test Package** : MOB 1  
**Received** : 05 Jun 2024  
**Tested** : 05 Jun 2024  
**Diagnosed** : 05 Jun 2024 - Wes Davis

**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.