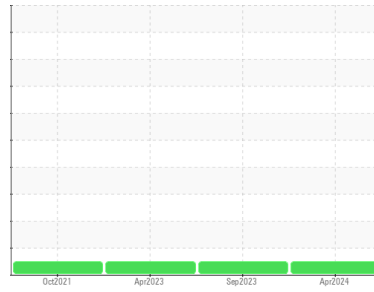




# OIL ANALYSIS REPORT

Sample Rating Trend



**NORMAL**



Machine Id  
**731041**  
 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>GFL0117138</b>	GFL	GFL0064310
Sample Date	Client Info		<b>25 Apr 2024</b>	29 Sep 2023	17 Apr 2023
Machine Age	hrs	Client Info	<b>5850</b>	4737	3817
Oil Age	hrs	Client Info	<b>1200</b>	1200	1200
Oil Changed	Client Info		<b>Changed</b>	Changed	Changed
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>15</b>	10	14
Chromium	ppm	ASTM D5185(m) >4	<b>1</b>	<1	<1
Nickel	ppm	ASTM D5185(m) >2	<b>&lt;1</b>	<1	<1
Titanium	ppm	ASTM D5185(m)	<b>&lt;1</b>	0	<1
Silver	ppm	ASTM D5185(m) >3	<b>0</b>	<1	0
Aluminum	ppm	ASTM D5185(m) >9	<b>2</b>	2	3
Lead	ppm	ASTM D5185(m) >30	<b>12</b>	6	7
Copper	ppm	ASTM D5185(m) >35	<b>2</b>	2	3
Tin	ppm	ASTM D5185(m) >4	<b>&lt;1</b>	<1	1
Antimony	ppm	ASTM D5185(m)	<b>0</b>	0	<1
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>7</b>	12	9
Barium	ppm	ASTM D5185(m) 5	<b>&lt;1</b>	<1	0
Molybdenum	ppm	ASTM D5185(m) 50	<b>59</b>	60	60
Manganese	ppm	ASTM D5185(m) 0	<b>&lt;1</b>	0	<1
Magnesium	ppm	ASTM D5185(m) 560	<b>633</b>	594	598
Calcium	ppm	ASTM D5185(m) 1510	<b>1669</b>	1608	1726
Phosphorus	ppm	ASTM D5185(m) 780	<b>752</b>	707	764
Zinc	ppm	ASTM D5185(m) 870	<b>956</b>	925	956
Sulfur	ppm	ASTM D5185(m) 2040	<b>2006</b>	1973	2072
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>4</b>	4	4
Sodium	ppm	ASTM D5185(m)	<b>9</b>	8	9
Potassium	ppm	ASTM D5185(m) >20	<b>&lt;1</b>	0	<1

## INFRA-RED

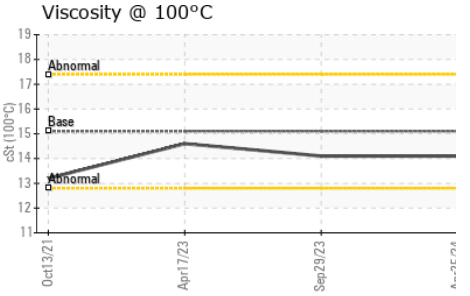
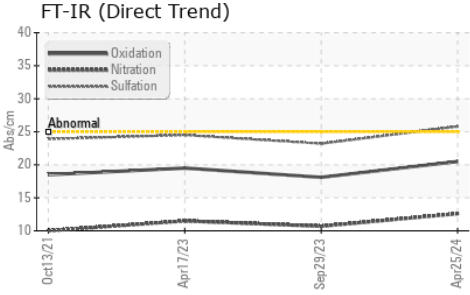
	method	limit/base	current	history1	history2
Soot %	%	ASTM D7844*	<b>0</b>	0	0
Nitration	Abs/cm	ASTM D7624*	<b>12.6</b>	10.7	11.5
Sulfation	Abs/.1mm	ASTM D7415*	<b>25.8</b>	23.2	24.5

## FLUID DEGRADATION

	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	ASTM D7414*	<b>20.5</b>	18.1	19.5



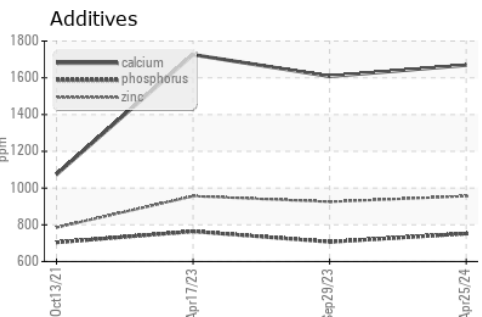
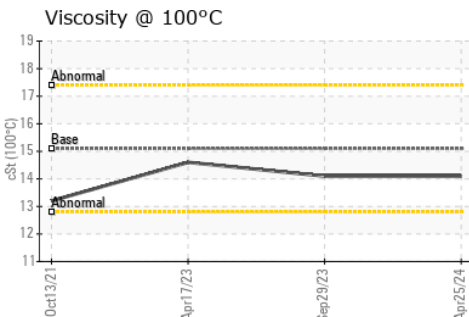
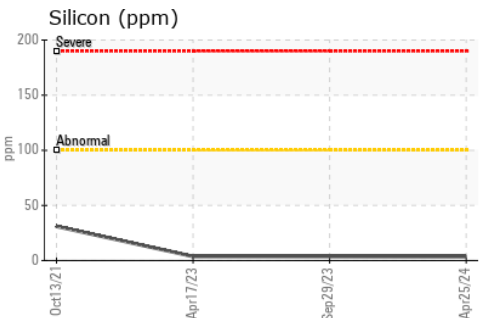
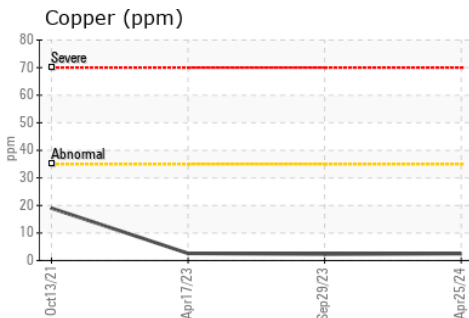
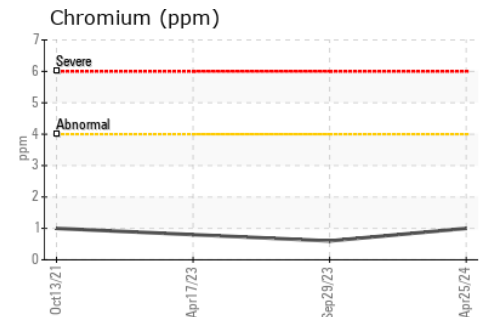
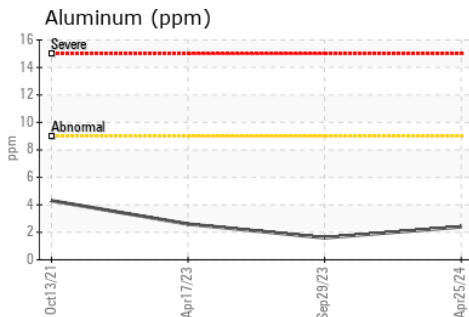
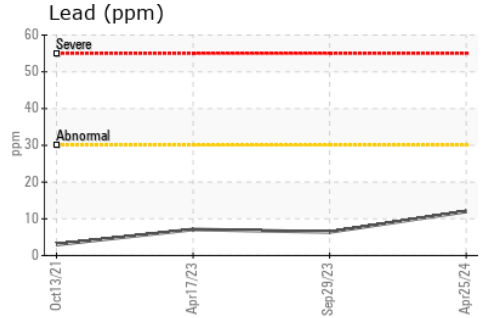
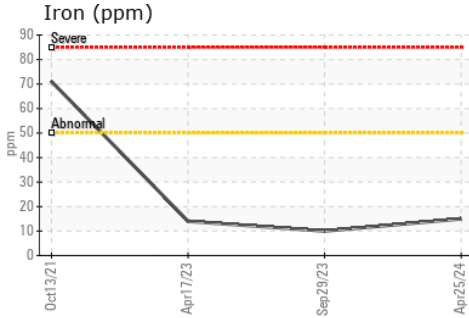
# OIL ANALYSIS REPORT



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	14.1	14.6

## GRAPHS



**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9  
**Sample No.** : GFL0117138  
**Lab Number** : 02632717  
**Unique Number** : 5773870  
**Test Package** : MOB 1  
**Received** : 02 May 2024  
**Tested** : 02 May 2024  
**Diagnosed** : 02 May 2024 - Wes Davis

**GFL Environmental - 209 - Hamilton**  
 560 Seaman Street  
 Stoney Creek, ON  
 CA L8E 3X7  
 Contact: Fred Carleton  
 fred.carleton@gflenv.com  
 T: (289)925-6693  
 F: (905)664-9008

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.