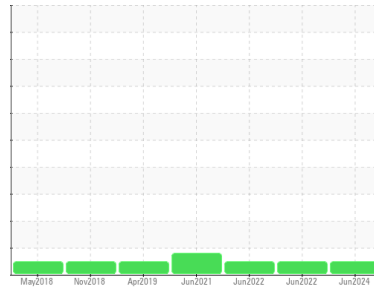




# OIL ANALYSIS REPORT

## Sample Rating Trend



**NORMAL**



Machine Id  
**9159**  
 Component  
**Natural Gas Engine**  
 Fluid  
**PETRO CANADA DURON GEO LD 15W40 (24 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>GFL0126258</b>	GFL0053127	GFL0053120
Sample Date	Client Info		<b>30 Jun 2024</b>	29 Jun 2022	01 Jun 2022
Machine Age	hrs	Client Info	<b>16811</b>	0	15008
Oil Age	hrs	Client Info	<b>978</b>	0	0
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>32</b>	6	17
Chromium	ppm	ASTM D5185(m)	>4	<b>2</b>	<1	1
Nickel	ppm	ASTM D5185(m)	>2	<b>&lt;1</b>	<1	<1
Titanium	ppm	ASTM D5185(m)		<b>0</b>	<1	0
Silver	ppm	ASTM D5185(m)	>3	<b>0</b>	0	2
Aluminum	ppm	ASTM D5185(m)	>9	<b>8</b>	2	5
Lead	ppm	ASTM D5185(m)	>30	<b>3</b>	<1	1
Copper	ppm	ASTM D5185(m)	>35	<b>6</b>	2	6
Tin	ppm	ASTM D5185(m)	>4	<b>2</b>	0	<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>	46	17
Barium	ppm	ASTM D5185(m)	5	<b>&lt;1</b>	0	0
Molybdenum	ppm	ASTM D5185(m)	50	<b>93</b>	54	56
Manganese	ppm	ASTM D5185(m)	0	<b>3</b>	<1	<1
Magnesium	ppm	ASTM D5185(m)	560	<b>331</b>	546	629
Calcium	ppm	ASTM D5185(m)	1510	<b>1826</b>	1492	1551
Phosphorus	ppm	ASTM D5185(m)	780	<b>704</b>	713	733
Zinc	ppm	ASTM D5185(m)	870	<b>885</b>	851	947
Sulfur	ppm	ASTM D5185(m)	2040	<b>1969</b>	2139	2052
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>8</b>	4	6
Sodium	ppm	ASTM D5185(m)		<b>10</b>	6	8
Potassium	ppm	ASTM D5185(m)	>20	<b>&lt;1</b>	<1	2

## INFRA-RED

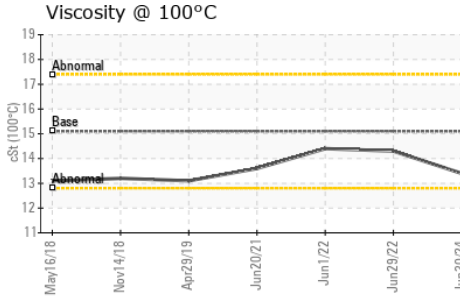
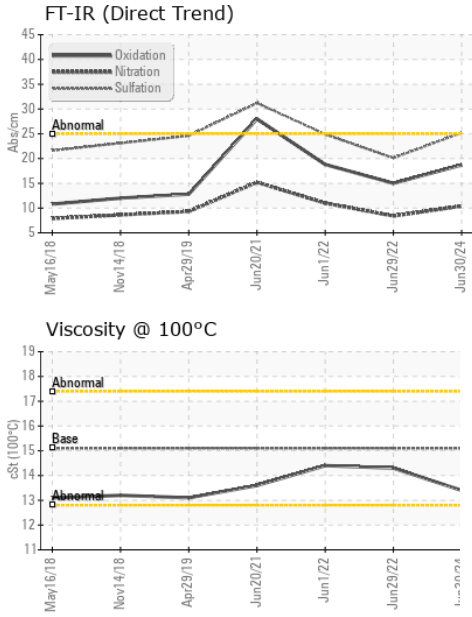
	method	limit/base	current	history1	history2	
Soot %	%	ASTM D7844*		<b>0</b>	0	0
Nitration	Abs/cm	ASTM D7624*	>20	<b>10.4</b>	8.4	11.0
Sulfation	Abs.1mm	ASTM D7415*	>30	<b>25.2</b>	20.1	24.9

## FLUID DEGRADATION

	method	limit/base	current	history1	history2	
Oxidation	Abs.1mm	ASTM D7414*	>25	<b>18.7</b>	15.0	18.8



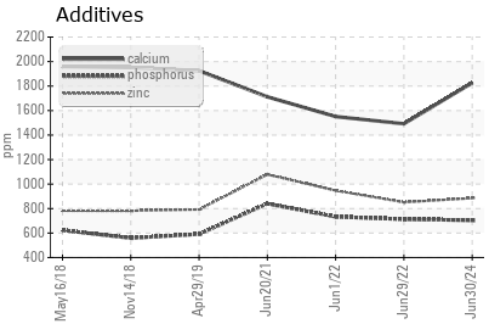
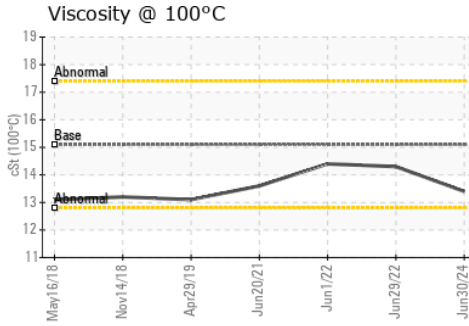
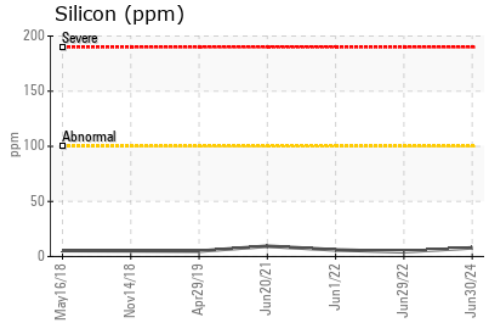
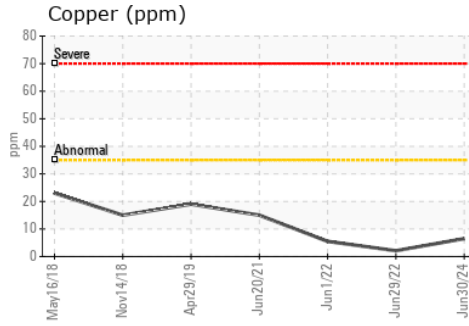
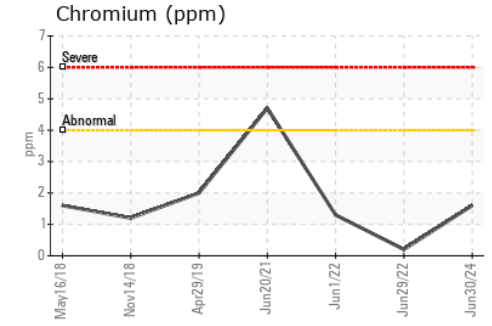
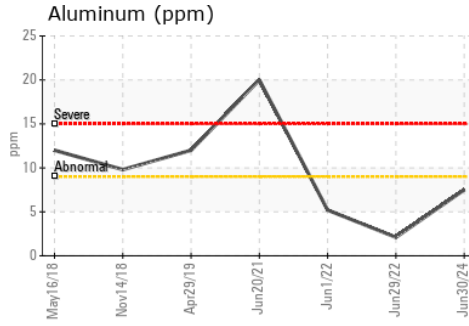
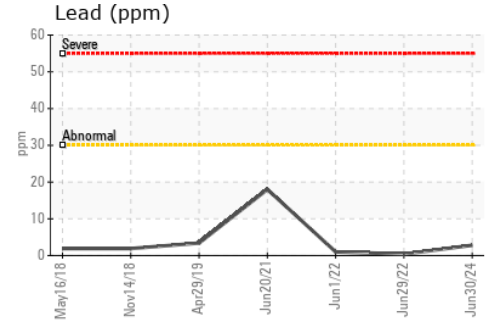
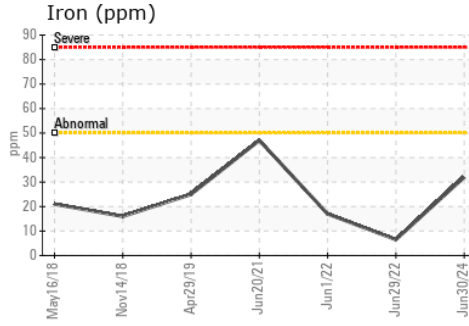
# OIL ANALYSIS REPORT



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	13.4	14.3

## GRAPHS



**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9  
**Sample No.** : GFL0126258  
**Lab Number** : 02645865  
**Unique Number** : 5811417  
**Test Package** : MOB 1  
**Received** : 05 Jul 2024  
**Tested** : 05 Jul 2024  
**Diagnosed** : 05 Jul 2024 - Wes Davis

**GFL Environmental - 216**  
 15 Bermondsey Road  
 Toronto, ON  
 CA M4B 1Y9  
 Contact: Tom Hatzioannidis  
 thatzioannidis@gflenv.com  
 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.