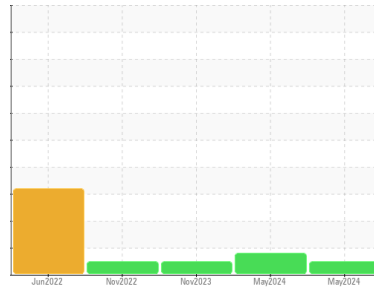




# OIL ANALYSIS REPORT

Sample Rating Trend



**NORMAL**



Machine Id  
**931022**  
 Component  
**Natural Gas Engine**  
 Fluid  
**DIESEL ENGINE OIL SAE 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>GFL0119225</b>	GFL0112692	GFL0100350
Sample Date	Client Info		<b>27 May 2024</b>	14 May 2024	09 Nov 2023
Machine Age	hrs	Client Info	<b>5967</b>	5884	4691
Oil Age	hrs	Client Info	<b>0</b>	0	0
Oil Changed	Client Info		<b>Not Chngd</b>	N/A	Changed
Sample Status			<b>NORMAL</b>	ABNORMAL	NORMAL

## CONTAMINATION

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

## WEAR METALS

	method	limit/base	current	history1	history2	
Iron	ppm	ASTM D5185(m)	>50	<b>8</b>	34	29
Chromium	ppm	ASTM D5185(m)	>5	<b>0</b>	2	2
Nickel	ppm	ASTM D5185(m)	>4	<b>&lt;1</b>	1	2
Titanium	ppm	ASTM D5185(m)	>5	<b>0</b>	0	0
Silver	ppm	ASTM D5185(m)	>3	<b>0</b>	0	<1
Aluminum	ppm	ASTM D5185(m)	>25	<b>5</b>	▲ 29	22
Lead	ppm	ASTM D5185(m)	>40	<b>&lt;1</b>	9	13
Copper	ppm	ASTM D5185(m)	>150	<b>&lt;1</b>	2	3
Tin	ppm	ASTM D5185(m)	>4	<b>0</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)	250	<b>39</b>	7	8
Barium	ppm	ASTM D5185(m)	10	<b>0</b>	0	<1
Molybdenum	ppm	ASTM D5185(m)	100	<b>48</b>	62	58
Manganese	ppm	ASTM D5185(m)		<b>&lt;1</b>	<1	<1
Magnesium	ppm	ASTM D5185(m)	450	<b>535</b>	635	634
Calcium	ppm	ASTM D5185(m)	3000	<b>1509</b>	1780	1728
Phosphorus	ppm	ASTM D5185(m)	1150	<b>695</b>	791	788
Zinc	ppm	ASTM D5185(m)	1350	<b>835</b>	985	996
Sulfur	ppm	ASTM D5185(m)	4250	<b>1962</b>	2022	1973
Lithium	ppm	ASTM D5185(m)		<b>&lt;1</b>	<1	<1

## CONTAMINANTS

	method	limit/base	current	history1	history2	
Silicon	ppm	ASTM D5185(m)	>25	<b>3</b>	7	8
Sodium	ppm	ASTM D5185(m)	>158	<b>5</b>	11	10
Potassium	ppm	ASTM D5185(m)	>20	<b>1</b>	8	8

## INFRA-RED

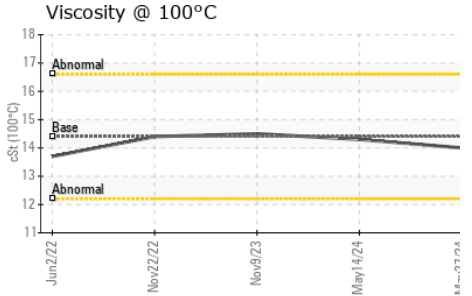
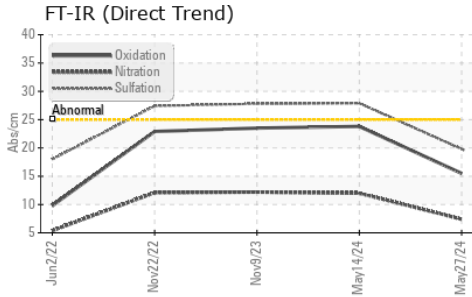
	method	limit/base	current	history1	history2	
Soot %	%	ASTM D7844*		<b>0</b>	0	0
Nitration	Abs/cm	ASTM D7624*	>20	<b>7.4</b>	12.0	12.2
Sulfation	Abs/.1mm	ASTM D7415*	>30	<b>19.8</b>	27.9	27.8

## FLUID DEGRADATION

	method	limit/base	current	history1	history2	
Oxidation	Abs/.1mm	ASTM D7414*	>25	<b>15.5</b>	23.8	23.5



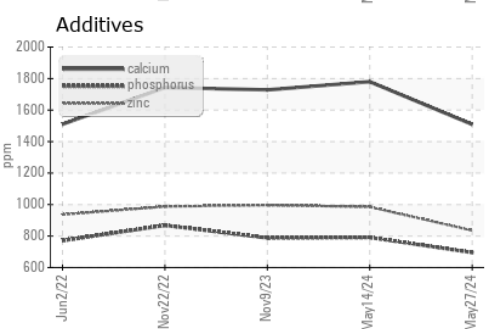
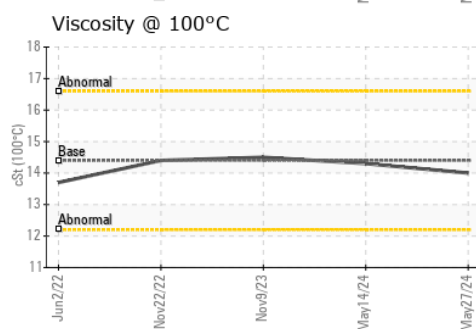
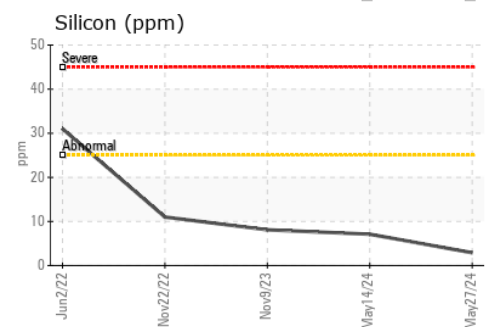
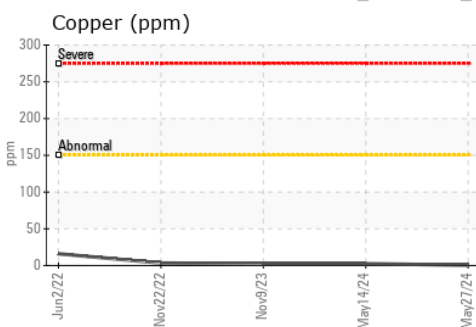
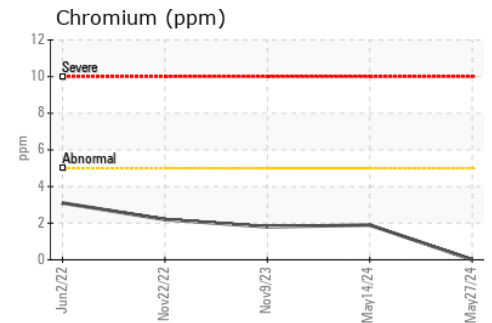
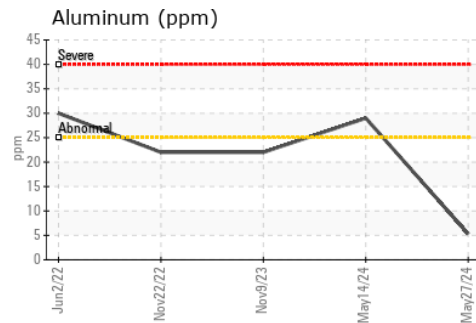
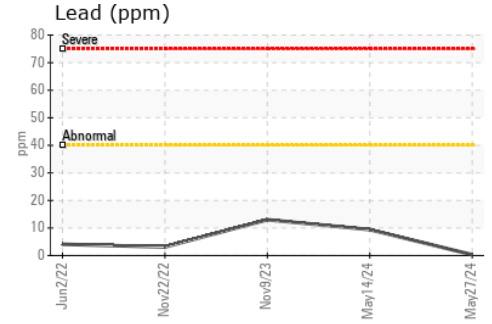
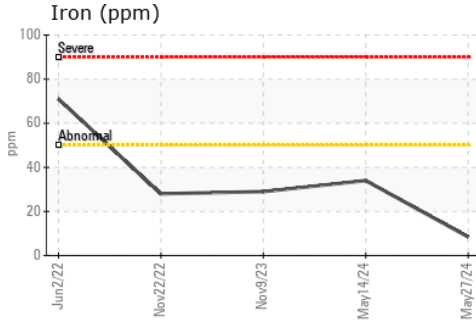
# OIL ANALYSIS REPORT



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)	14.4	14.0	14.3

## GRAPHS



**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9  
**Sample No.** : GFL0119225  
**Lab Number** : 02639058  
**Unique Number** : 5788220  
**Test Package** : MOB 1  
**Received** : 31 May 2024  
**Tested** : 31 May 2024  
**Diagnosed** : 31 May 2024 - Wes Davis

**GFL Environmental - 253 - TOR APT**  
 15 Bermondsey Road - Building B  
 Toronto, ON  
 CA M4B 1Y9  
 Contact: Natalia Stalynska  
 nstalynska@gflenv.com

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.