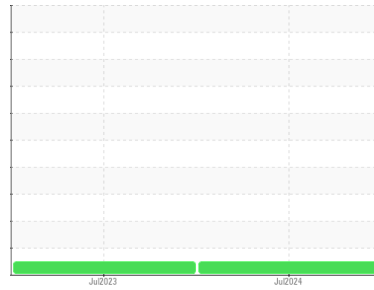




# OIL ANALYSIS REPORT

Sample Rating Trend



**NORMAL**



Machine Id  
**832009**  
 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>GFL0119243</b>	GFL0087019	---
Sample Date	Client Info		<b>10 Jul 2024</b>	20 Jul 2023	---
Machine Age	hrs	Client Info	<b>2823</b>	15349	---
Oil Age	hrs	Client Info	<b>0</b>	0	---
Oil Changed	Client Info		<b>Changed</b>	N/A	---
Sample Status			<b>NORMAL</b>	NORMAL	---

## CONTAMINATION

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

## WEAR METALS

	method	limit/base	current	history1	history2	
Iron	ppm	ASTM D5185(m)	>50	<b>17</b>	68	---
Chromium	ppm	ASTM D5185(m)	>4	<b>2</b>	2	---
Nickel	ppm	ASTM D5185(m)	>2	<b>&lt;1</b>	1	---
Titanium	ppm	ASTM D5185(m)		<b>0</b>	<1	---
Silver	ppm	ASTM D5185(m)	>3	<b>0</b>	<1	---
Aluminum	ppm	ASTM D5185(m)	>9	<b>1</b>	4	---
Lead	ppm	ASTM D5185(m)	>30	<b>&lt;1</b>	1	---
Copper	ppm	ASTM D5185(m)	>35	<b>2</b>	13	---
Tin	ppm	ASTM D5185(m)	>4	<b>&lt;1</b>	2	---
Antimony	ppm	ASTM D5185(m)		<b>&lt;1</b>	0	---
Vanadium	ppm	ASTM D5185(m)		<b>0</b>	0	---
Beryllium	ppm	ASTM D5185(m)		<b>0</b>	0	---
Cadmium	ppm	ASTM D5185(m)		<b>0</b>	0	---

## ADDITIVES

	method	limit/base	current	history1	history2	
Boron	ppm	ASTM D5185(m)	250	<b>15</b>	10	---
Barium	ppm	ASTM D5185(m)	10	<b>&lt;1</b>	2	---
Molybdenum	ppm	ASTM D5185(m)	100	<b>60</b>	78	---
Manganese	ppm	ASTM D5185(m)		<b>&lt;1</b>	6	---
Magnesium	ppm	ASTM D5185(m)	450	<b>603</b>	652	---
Calcium	ppm	ASTM D5185(m)	3000	<b>1842</b>	1418	---
Phosphorus	ppm	ASTM D5185(m)	1150	<b>719</b>	786	---
Zinc	ppm	ASTM D5185(m)	1350	<b>1021</b>	907	---
Sulfur	ppm	ASTM D5185(m)	4250	<b>2155</b>	2135	---
Lithium	ppm	ASTM D5185(m)		<b>&lt;1</b>	<1	---

## CONTAMINANTS

	method	limit/base	current	history1	history2	
Silicon	ppm	ASTM D5185(m)	>+100	<b>4</b>	19	---
Sodium	ppm	ASTM D5185(m)	>158	<b>8</b>	4	---
Potassium	ppm	ASTM D5185(m)	>20	<b>&lt;1</b>	2	---

## INFRA-RED

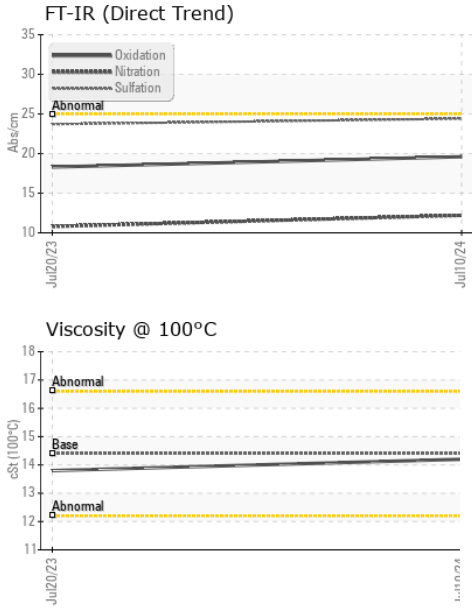
	method	limit/base	current	history1	history2	
Soot %	%	ASTM D7844*		<b>0</b>	0	---
Nitration	Abs/cm	ASTM D7624*	>20	<b>12.2</b>	10.8	---
Sulfation	Abs/.1mm	ASTM D7415*	>30	<b>24.4</b>	23.7	---

## FLUID DEGRADATION

	method	limit/base	current	history1	history2	
Oxidation	Abs/.1mm	ASTM D7414*	>25	<b>19.6</b>	18.3	---



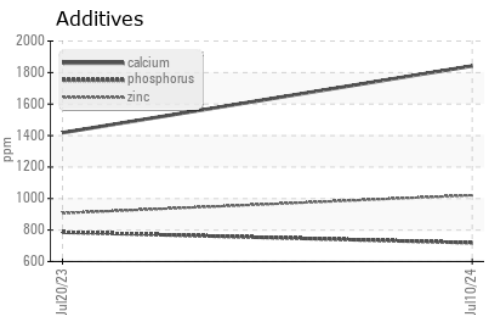
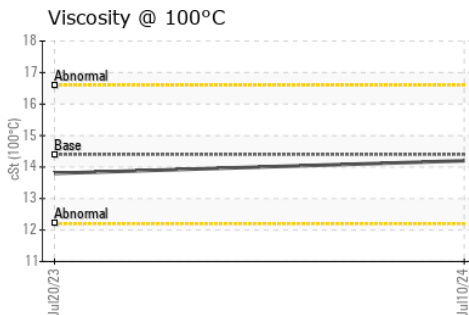
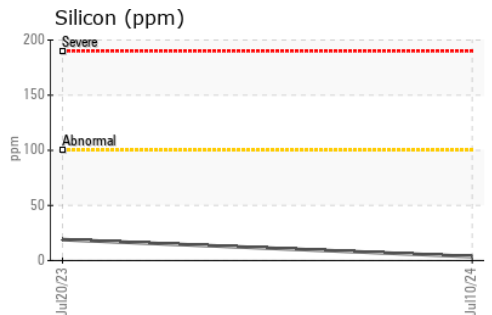
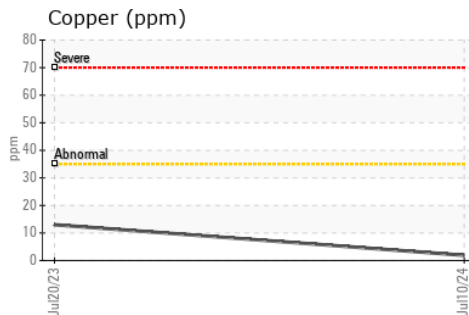
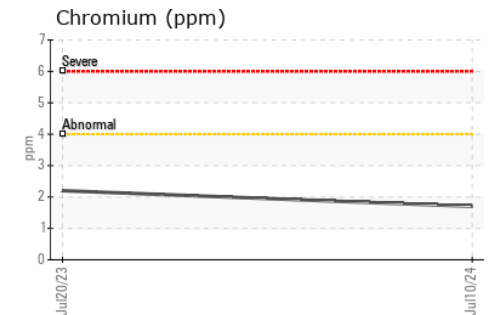
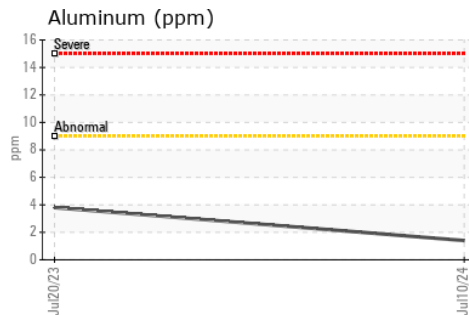
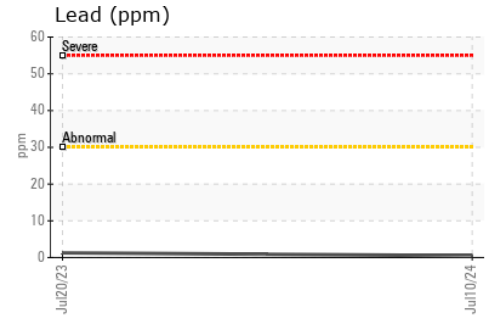
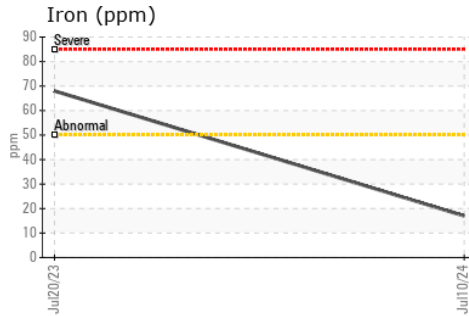
# OIL ANALYSIS REPORT



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	14.2	13.8

## GRAPHS



**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9  
**Sample No.** : GFL0119243  
**Lab Number** : 02648081  
**Unique Number** : 5813633  
**Test Package** : MOB 1

**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.

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F: