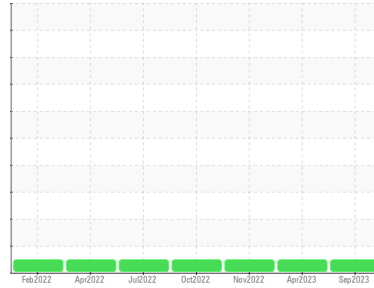




# OIL ANALYSIS REPORT

Sample Rating Trend

**NORMAL**



Machine Id  
**727008**

Component  
**Diesel 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>GFL0053577</b>	GFL0078525	GFL0063886	
Sample Date	Client Info	<b>29 Sep 2023</b>	20 Apr 2023	02 Nov 2022	
Machine Age	hrs	Client Info	<b>0</b>	0	14073
Oil Age	hrs	Client Info	<b>0</b>	0	124
Oil Changed	Client Info	<b>N/A</b>	Changed	Changed	
Sample Status		<b>NORMAL</b>	NORMAL	NORMAL	

## CONTAMINATION

method	limit/base	current	history1	history2
Fuel	WC Method >3.0	<b>&lt;1.0</b>	<1.0	<1.0
Glycol	WC Method	<b>NEG</b>	NEG	NEG

## WEAR METALS

method	limit/base	current	history1	history2	
Iron	ppm	ASTM D5185(m) >120	<b>5</b>	5	2
Chromium	ppm	ASTM D5185(m) >20	<b>0</b>	0	0
Nickel	ppm	ASTM D5185(m) >5	<b>&lt;1</b>	0	0
Titanium	ppm	ASTM D5185(m) >2	<b>0</b>	<1	<1
Silver	ppm	ASTM D5185(m) >2	<b>&lt;1</b>	0	0
Aluminum	ppm	ASTM D5185(m) >20	<b>1</b>	2	<1
Lead	ppm	ASTM D5185(m) >40	<b>&lt;1</b>	<1	<1
Copper	ppm	ASTM D5185(m) >330	<b>&lt;1</b>	2	<1
Tin	ppm	ASTM D5185(m) >15	<b>0</b>	<1	0
Antimony	ppm	ASTM D5185(m)	<b>0</b>	<1	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>96</b>	3	3
Barium	ppm	ASTM D5185(m) 10	<b>&lt;1</b>	0	0
Molybdenum	ppm	ASTM D5185(m) 100	<b>2</b>	57	58
Manganese	ppm	ASTM D5185(m)	<b>0</b>	<1	<1
Magnesium	ppm	ASTM D5185(m) 450	<b>28</b>	934	954
Calcium	ppm	ASTM D5185(m) 3000	<b>2159</b>	1105	1098
Phosphorus	ppm	ASTM D5185(m) 1150	<b>898</b>	1051	1080
Zinc	ppm	ASTM D5185(m) 1350	<b>1128</b>	1171	1181
Sulfur	ppm	ASTM D5185(m) 4250	<b>2698</b>	2524	2718
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>	2	2
Sodium	ppm	ASTM D5185(m) >158	<b>5</b>	4	2
Potassium	ppm	ASTM D5185(m) >20	<b>5</b>	<1	<1

## INFRA-RED

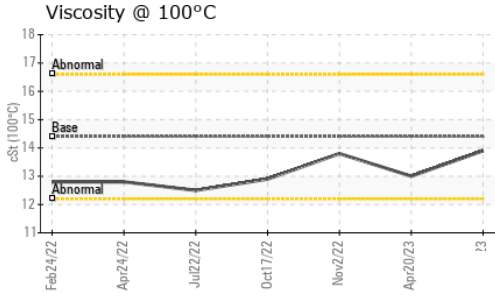
method	limit/base	current	history1	history2	
Soot %	%	ASTM D7844* >4	<b>0.1</b>	0.2	0
Nitration	Abs/cm	ASTM D7624* >20	<b>8.0</b>	7.7	5.6
Sulfation	Abs/.1mm	ASTM D7415* >30	<b>21.7</b>	18.7	19.3

## FLUID DEGRADATION

method	limit/base	current	history1	history2	
Oxidation	Abs/.1mm	ASTM D7414* >25	<b>16.9</b>	14.5	14.6



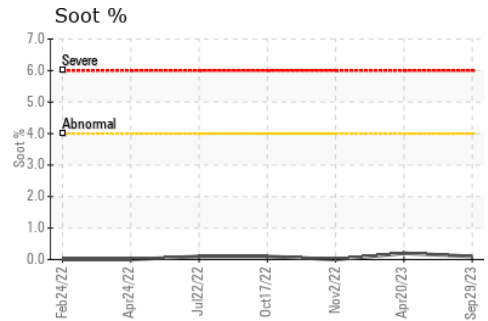
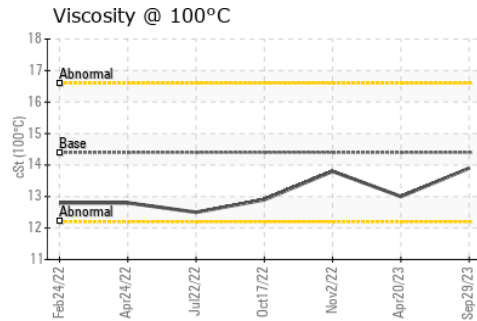
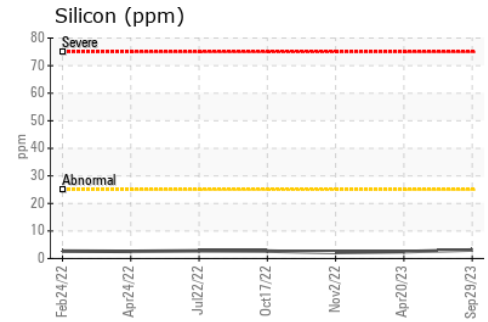
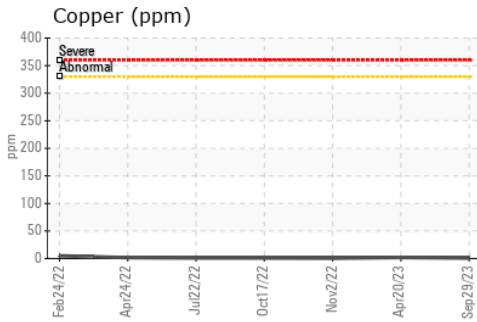
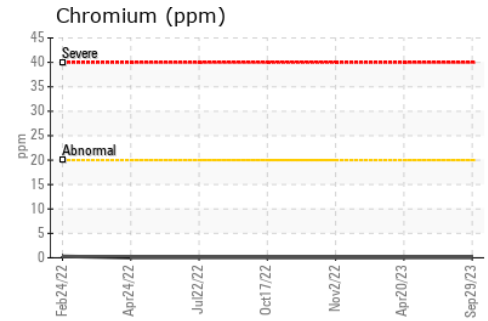
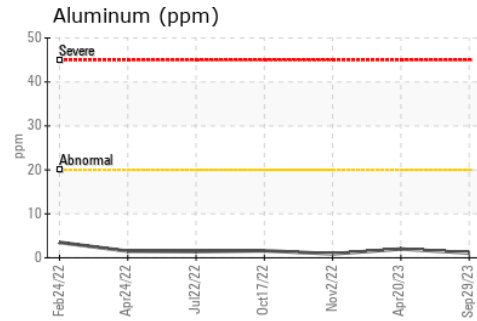
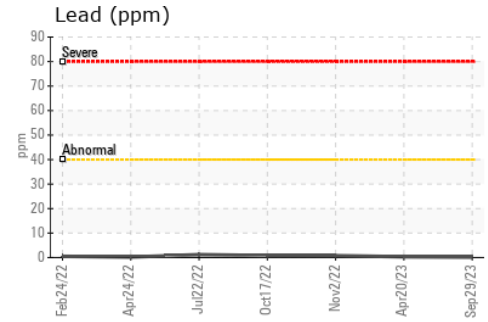
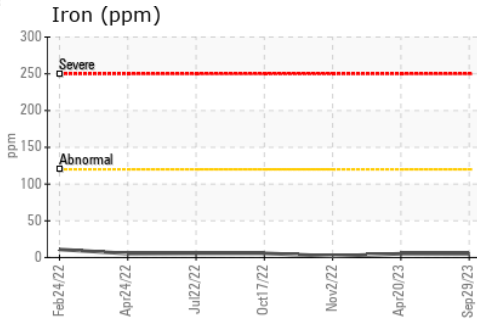
# OIL ANALYSIS REPORT



VISUAL		method	limit/base	current	history1	history2
Emulsified Water	scalar	Visual*	>0.2	<b>NEG</b>	NEG	NEG
Free Water	scalar	Visual*		<b>NEG</b>	NEG	NEG

FLUID PROPERTIES		method	limit/base	current	history1	history2
Visc @ 100°C	cSt	ASTM D7279(m)	14.4	<b>13.9</b>	13.0	13.8

## GRAPHS



**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 **GFL Environmental - 246 - Windsor**  
**Sample No.** : GFL0053577 **Received** : 03 Oct 2023 2700 Deziel Dr  
**Lab Number** : 02586297 **Diagnosed** : 03 Oct 2023 Windsor, ON  
**Unique Number** : 5655363 **Diagnostician** : Wes Davis CA N8W 5H8  
**Test Package** : MOB 1

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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