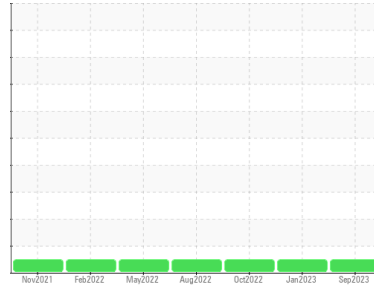




# OIL ANALYSIS REPORT

Sample Rating Trend

**NORMAL**



Machine Id  
**728003**

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>GFL0090858</b>	GFL0071328	GFL0061955
Sample Date	Client Info	<b>18 Sep 2023</b>	12 Jan 2023	26 Oct 2022
Machine Age	hrs	<b>0</b>	12005	11447
Oil Age	hrs	<b>13786</b>	558	575
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	4
Chromium	ppm ASTM D5185(m) >20	<b>&lt;1</b>	0	0
Nickel	ppm ASTM D5185(m) >5	<b>&lt;1</b>	<1	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>2</b>	3	2
Lead	ppm ASTM D5185(m) >40	<b>0</b>	<1	<1
Copper	ppm ASTM D5185(m) >330	<b>&lt;1</b>	<1	<1
Tin	ppm ASTM D5185(m) >15	<b>0</b>	<1	0
Antimony	ppm ASTM D5185(m)	<b>0</b>	<1	<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) 250	<b>95</b>	3	2
Barium	ppm ASTM D5185(m) 10	<b>0</b>	0	0
Molybdenum	ppm ASTM D5185(m) 100	<b>2</b>	58	58
Manganese	ppm ASTM D5185(m)	<b>0</b>	<1	<1
Magnesium	ppm ASTM D5185(m) 450	<b>30</b>	944	930
Calcium	ppm ASTM D5185(m) 3000	<b>2118</b>	1134	1109
Phosphorus	ppm ASTM D5185(m) 1150	<b>1001</b>	1012	1003
Zinc	ppm ASTM D5185(m) 1350	<b>1131</b>	1189	1166
Sulfur	ppm ASTM D5185(m) 4250	<b>2837</b>	2458	2367
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>2</b>	3	3
Sodium	ppm ASTM D5185(m) >158	<b>3</b>	3	3
Potassium	ppm ASTM D5185(m) >20	<b>6</b>	<1	<1

## INFRA-RED

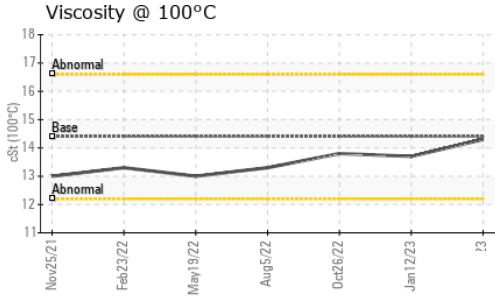
method	limit/base	current	history1	history2
Soot %	% ASTM D7844* >4	<b>0.2</b>	0	0.1
Nitration	Abs/cm ASTM D7624* >20	<b>8.3</b>	7.6	7.5
Sulfation	Abs/.1mm ASTM D7415* >30	<b>21.6</b>	20.1	20.5

## FLUID DEGRADATION

method	limit/base	current	history1	history2
Oxidation	Abs/.1mm ASTM D7414* >25	<b>16.3</b>	15.1	15.8



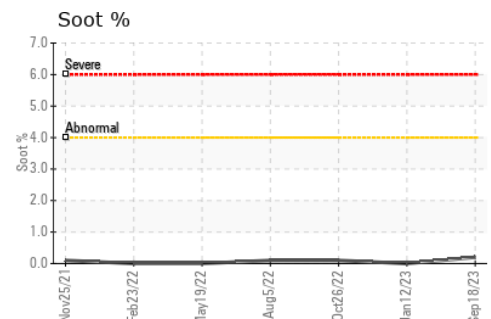
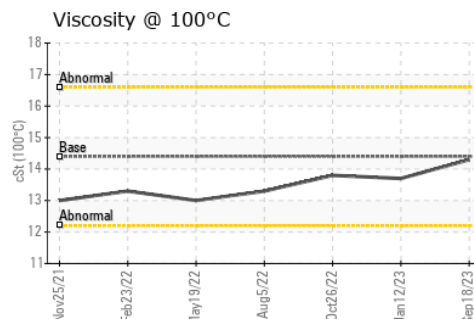
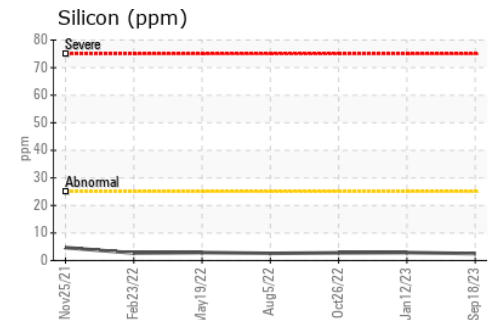
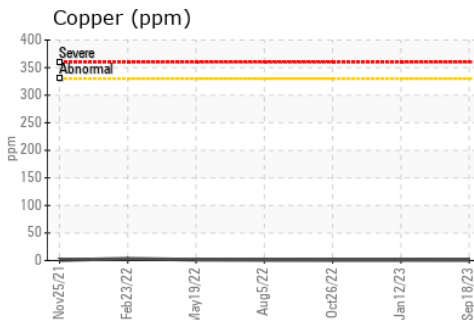
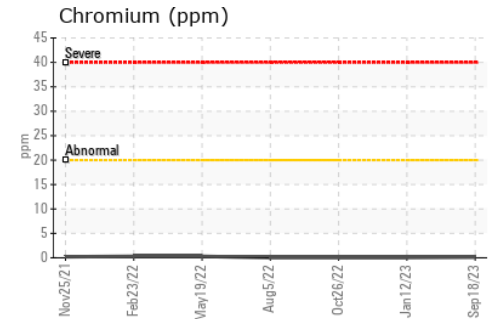
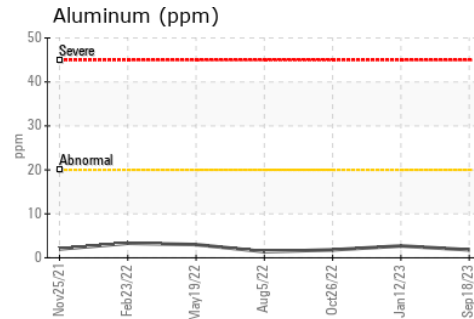
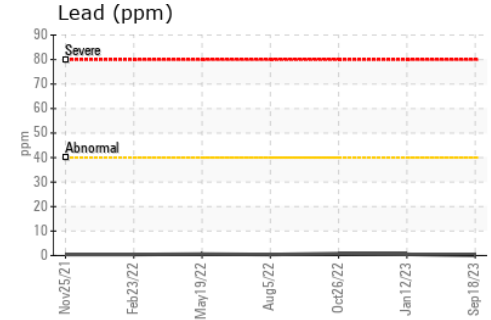
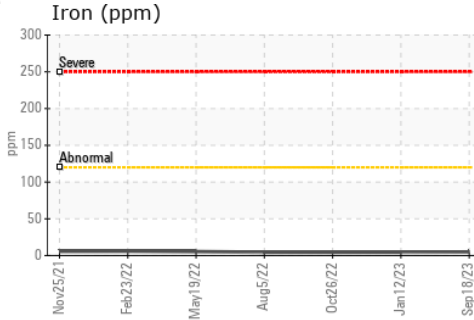
# OIL ANALYSIS REPORT



VISUAL	method	limit/base	current	history1	history2
Emulsified Water	scalar	Visual*	>0.2	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	<b>14.3</b>	13.7

## GRAPHS



**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 **GFL Environmental - 246 - Windsor**  
**Sample No.** : GFL0090858 **Received** : 19 Sep 2023 2700 Deziel Dr  
**Lab Number** : **02583530** **Diagnosed** : 19 Sep 2023 Windsor, ON  
**Unique Number** : 5644595 **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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