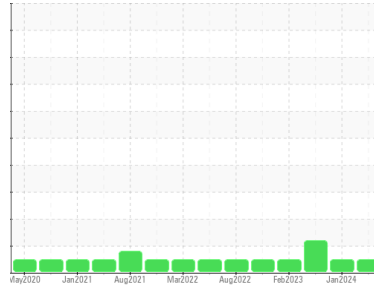




# OIL ANALYSIS REPORT

Sample Rating Trend

**NORMAL**



Machine Id  
**722003**  
Component  
**Diesel Engine**  
Fluid  
**DIESEL ENGINE OIL SAE 15W40 (--- GAL)**

## DIAGNOSIS

### Recommendation

No corrective action is recommended at this time. Resample at the next service interval to monitor.

### Wear

All component wear rates are normal.

### Contamination

Light fuel dilution occurring. No other contaminants were detected in the oil.

### Fluid Condition

Viscosity of sample indicates oil is within SAE 30 range, advise investigate. 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>GFL0102864</b>	GFL0102876	GFL0078495
Sample Date	Client Info		<b>27 Mar 2024</b>	08 Jan 2024	24 Jul 2023
Machine Age	hrs	Client Info	<b>28841</b>	28377	27235
Oil Age	hrs	Client Info	<b>0</b>	0	0
Oil Changed	Client Info		<b>N/A</b>	N/A	Changed
Sample Status			<b>NORMAL</b>	NORMAL	ABNORMAL

## CONTAMINATION

	method	limit/base	current	history1	history2
Water	WC Method	>0.2	<b>NEG</b>	NEG	NEG
Glycol	WC Method		<b>NEG</b>	NEG	NEG

## WEAR METALS

	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185(m) >120	<b>4</b>	5	5
Chromium	ppm	ASTM D5185(m) >20	<b>0</b>	0	0
Nickel	ppm	ASTM D5185(m) >5	<b>0</b>	<1	<1
Titanium	ppm	ASTM D5185(m) >2	<b>&lt;1</b>	0	<1
Silver	ppm	ASTM D5185(m) >2	<b>0</b>	0	0
Aluminum	ppm	ASTM D5185(m) >20	<b>2</b>	2	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>	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>45</b>	48	27
Barium	ppm	ASTM D5185(m) 10	<b>0</b>	0	0
Molybdenum	ppm	ASTM D5185(m) 100	<b>42</b>	12	41
Manganese	ppm	ASTM D5185(m)	<b>0</b>	0	<1
Magnesium	ppm	ASTM D5185(m) 450	<b>466</b>	156	489
Calcium	ppm	ASTM D5185(m) 3000	<b>1697</b>	1917	1611
Phosphorus	ppm	ASTM D5185(m) 1150	<b>727</b>	911	790
Zinc	ppm	ASTM D5185(m) 1350	<b>869</b>	1096	869
Sulfur	ppm	ASTM D5185(m) 4250	<b>2079</b>	2853	2059
Lithium	ppm	ASTM D5185(m)	<b>&lt;1</b>	<1	<1

## CONTAMINANTS

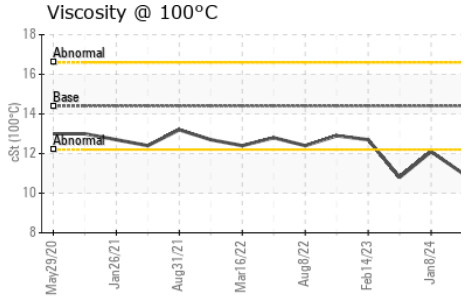
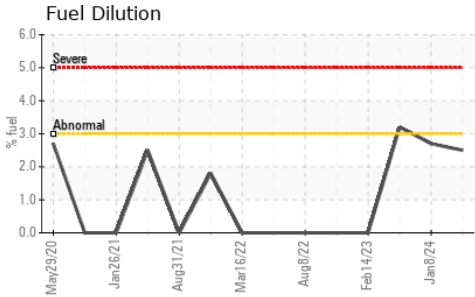
	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m) >25	<b>3</b>	3	5
Sodium	ppm	ASTM D5185(m) >158	<b>2</b>	3	2
Potassium	ppm	ASTM D5185(m) >20	<b>1</b>	5	<1
Fuel	%	ASTM D7593* >3.0	<b>2.5</b>	2.7	▲ 3.2

## INFRA-RED

	method	limit/base	current	history1	history2
Soot %	%	ASTM D7844* >4	<b>0</b>	0	0.1
Nitration	Abs/cm	ASTM D7624* >20	<b>9.5</b>	10.0	9.7
Sulfation	Abs./1mm	ASTM D7415* >30	<b>22.2</b>	26.5	21.6



# OIL ANALYSIS REPORT

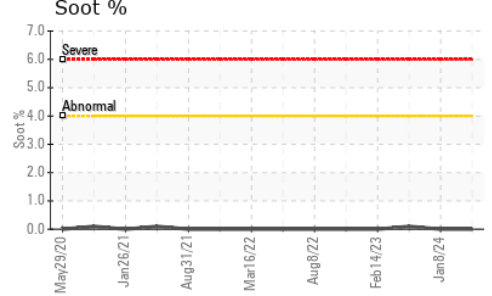
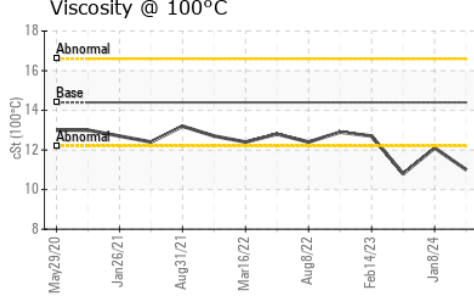
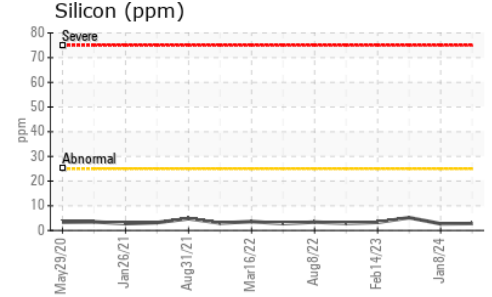
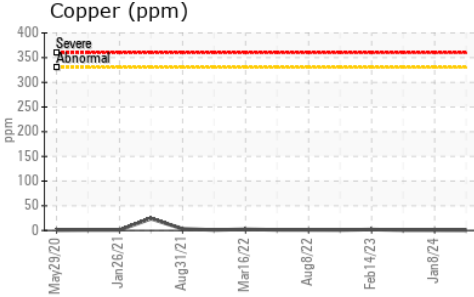
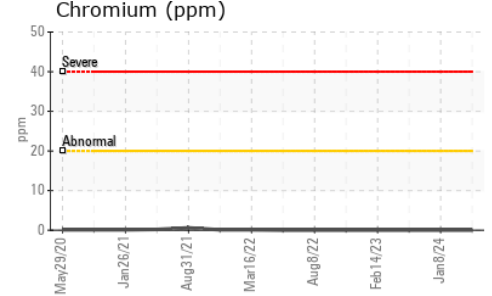
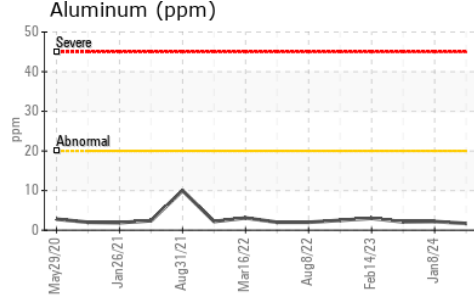
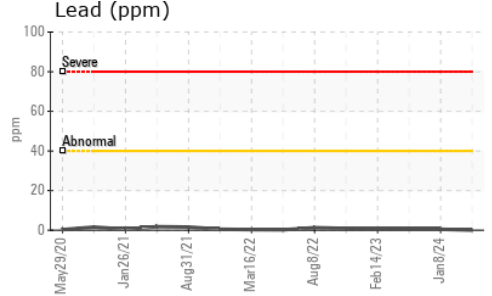
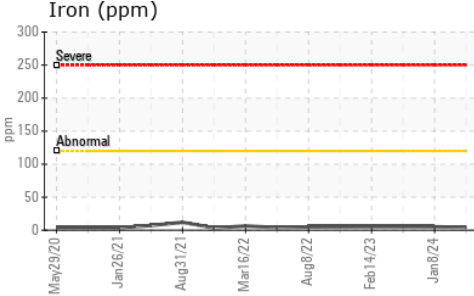


FLUID DEGRADATION		method	limit/base	current	history1	history2
Oxidation	Abs./1mm	ASTM D7414*	>25	<b>21.3</b>	20.3	21.6

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>11.0</b>	12.1	▲ 10.8

## GRAPHS



**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9  
**Sample No.** : GFL0102864 **Received** : 28 Mar 2024  
**Lab Number** : **02625136** **Tested** : 01 Apr 2024  
**Unique Number** : 5750255 **Diagnosed** : 01 Apr 2024 - Kevin Marson  
**Test Package** : MOB 1 ( Additional Tests: FuelDilution, PercentFuel )

**GFL Environmental - 246 - Windsor**  
 2700 Deziel Dr  
 Windsor, ON  
 CA N8W 5H8  
 Contact: Dave Varga  
 dvarga@gflenv.com  
 T: (519)944-8009  
 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.