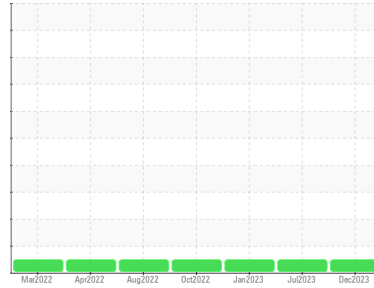




# OIL ANALYSIS REPORT

Sample Rating Trend

**NORMAL**



Area  
**[1197003]**  
 Machine Id  
**810049**  
 Component  
**Diesel Engine**  
 Fluid  
**DIESEL ENGINE OIL SAE 40 (--- GAL)**

## DIAGNOSIS

### Recommendation

Resample at the next service interval to monitor.  
 Please specify the component make and model with your next sample.

### 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>GFL0093936</b>	GFL0062928	GFL0062905
Sample Date	Client Info		<b>19 Dec 2023</b>	06 Jul 2023	17 Jan 2023
Machine Age	hrs	Client Info	<b>4884</b>	3776	2739
Oil Age	hrs	Client Info	<b>0</b>	0	2739
Oil Changed	Client Info		<b>N/A</b>	N/A	Changed
Sample Status			<b>NORMAL</b>	NORMAL	NORMAL

## CONTAMINATION

	method	limit/base	current	history1	history2
Fuel	WC Method	>5	<b>&lt;1.0</b>	<1.0	<1.0
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) >100	<b>43</b>	39	30
Chromium	ppm	ASTM D5185(m) >20	<b>2</b>	2	2
Nickel	ppm	ASTM D5185(m) >4	<b>&lt;1</b>	<1	<1
Titanium	ppm	ASTM D5185(m)	<b>0</b>	<1	<1
Silver	ppm	ASTM D5185(m) >3	<b>0</b>	<1	0
Aluminum	ppm	ASTM D5185(m) >20	<b>6</b>	9	9
Lead	ppm	ASTM D5185(m) >40	<b>&lt;1</b>	<1	<1
Copper	ppm	ASTM D5185(m) >330	<b>2</b>	2	5
Tin	ppm	ASTM D5185(m) >15	<b>&lt;1</b>	<1	<1
Antimony	ppm	ASTM D5185(m)	<b>0</b>	0	<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>5</b>	44	4
Barium	ppm	ASTM D5185(m) 10	<b>0</b>	0	0
Molybdenum	ppm	ASTM D5185(m) 100	<b>61</b>	14	62
Manganese	ppm	ASTM D5185(m)	<b>0</b>	<1	<1
Magnesium	ppm	ASTM D5185(m) 450	<b>948</b>	147	982
Calcium	ppm	ASTM D5185(m) 3000	<b>1212</b>	2158	1150
Phosphorus	ppm	ASTM D5185(m) 1150	<b>1037</b>	1031	1072
Zinc	ppm	ASTM D5185(m) 1350	<b>1210</b>	1198	1222
Sulfur	ppm	ASTM D5185(m) 4250	<b>2597</b>	2793	2508
Lithium	ppm	ASTM D5185(m)	<b>&lt;1</b>	<1	<1

## CONTAMINANTS

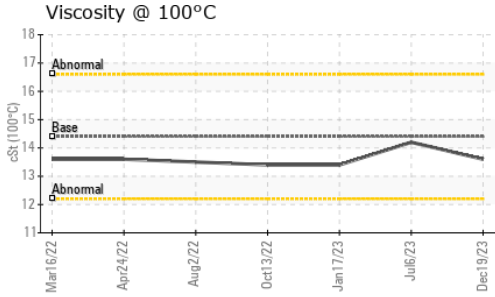
	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m) >25	<b>5</b>	17	5
Sodium	ppm	ASTM D5185(m) >216	<b>8</b>	4	7
Potassium	ppm	ASTM D5185(m) >20	<b>10</b>	22	15

## INFRA-RED

	method	limit/base	current	history1	history2
Soot %	%	ASTM D7844* >3	<b>0.5</b>	0.5	0.2
Nitration	Abs/cm	ASTM D7624* >20	<b>9.9</b>	10.4	9.4
Sulfation	Abs./1mm	ASTM D7415* >30	<b>21.7</b>	26.0	21.2



# OIL ANALYSIS REPORT



### FLUID DEGRADATION

	method	limit/base	current	history1	history2	
Oxidation	Abs./1mm	ASTM D7414*	>25	17.9	21.8	17.0

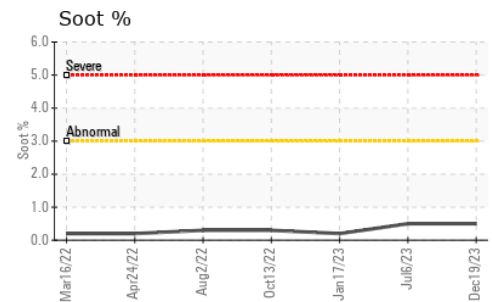
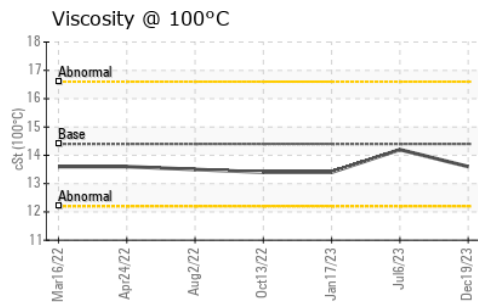
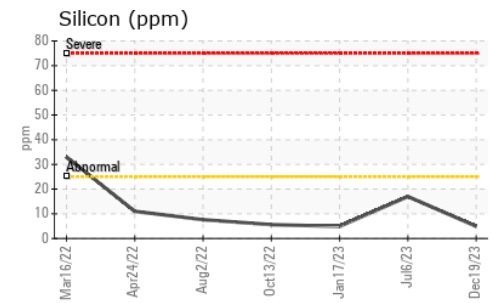
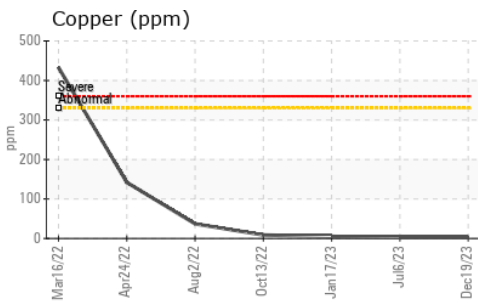
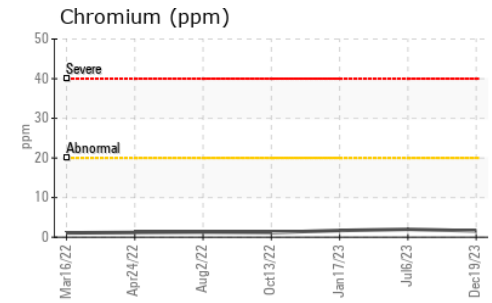
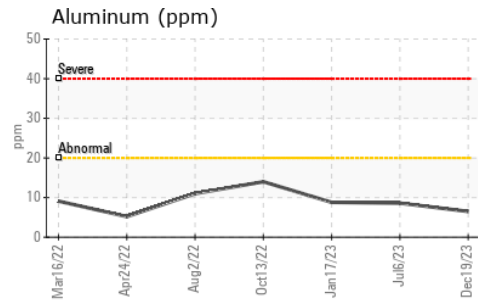
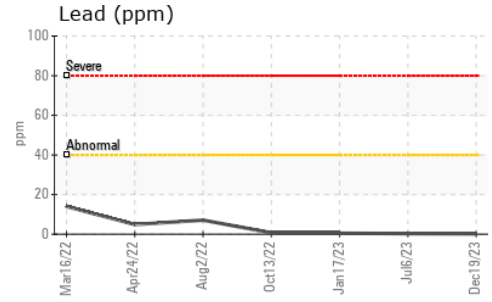
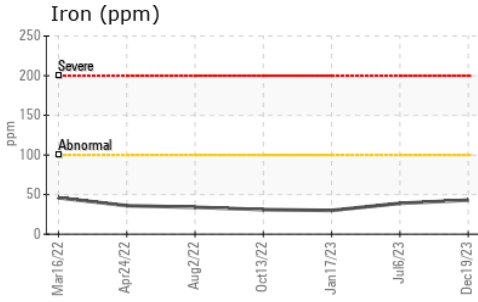
### VISUAL

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

### FLUID PROPERTIES

	method	limit/base	current	history1	history2	
Visc @ 100°C	cSt	ASTM D7279(m)	14.4	13.6	14.2	13.4

### GRAPHS



**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 GFL Environmental - 777 - Belleville-Municipal waste  
**Sample No.** : GFL0093936 **Received** : 22 Dec 2023 197 Putman Industrial Road  
**Lab Number** : 02604823 **Diagnosed** : 22 Dec 2023 Belleville, ON  
**Unique Number** : 5697908 **Diagnostician** : Wes Davis CA K8N 4Z6  
**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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