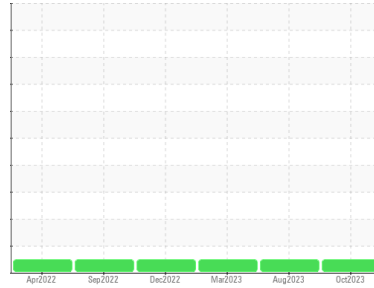




# OIL ANALYSIS REPORT

Sample Rating Trend

**NORMAL**



Area  
**[1166437]**  
 Machine Id  
**810045**

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>GFL0093928</b>	GFL0062943	GFL0062901
Sample Date	Client Info			<b>24 Oct 2023</b>	28 Aug 2023	07 Mar 2023
Machine Age	hrs	Client Info		<b>4379</b>	4008	2909
Oil Age	hrs	Client Info		<b>0</b>	0	2909
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
Glycol	WC Method			<b>NEG</b>	NEG	NEG

WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185(m)	>100	<b>27</b>	60	31
Chromium	ppm	ASTM D5185(m)	>20	<b>1</b>	2	2
Nickel	ppm	ASTM D5185(m)	>4	<b>0</b>	<1	<1
Titanium	ppm	ASTM D5185(m)		<b>0</b>	0	<1
Silver	ppm	ASTM D5185(m)	>3	<b>&lt;1</b>	<1	0
Aluminum	ppm	ASTM D5185(m)	>20	<b>2</b>	5	3
Lead	ppm	ASTM D5185(m)	>40	<b>&lt;1</b>	1	<1
Copper	ppm	ASTM D5185(m)	>330	<b>2</b>	3	3
Tin	ppm	ASTM D5185(m)	>15	<b>&lt;1</b>	<1	<1
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>5</b>	5	5
Barium	ppm	ASTM D5185(m)	10	<b>&lt;1</b>	0	0
Molybdenum	ppm	ASTM D5185(m)	100	<b>57</b>	62	61
Manganese	ppm	ASTM D5185(m)		<b>0</b>	<1	<1
Magnesium	ppm	ASTM D5185(m)	450	<b>886</b>	986	977
Calcium	ppm	ASTM D5185(m)	3000	<b>1096</b>	1115	1124
Phosphorus	ppm	ASTM D5185(m)	1150	<b>903</b>	1054	1050
Zinc	ppm	ASTM D5185(m)	1350	<b>1121</b>	1205	1184
Sulfur	ppm	ASTM D5185(m)	4250	<b>2254</b>	2373	2419
Lithium	ppm	ASTM D5185(m)		<b>&lt;1</b>	<1	<1

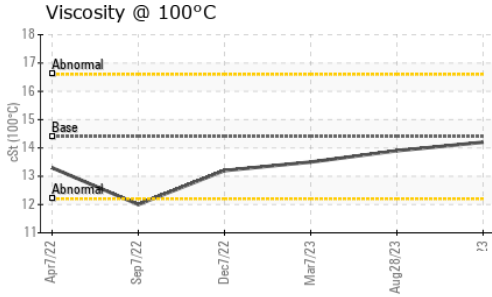
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)	>25	<b>5</b>	8	7
Sodium	ppm	ASTM D5185(m)	>216	<b>8</b>	10	8
Potassium	ppm	ASTM D5185(m)	>20	<b>3</b>	10	5

INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	ASTM D7844*	>3	<b>0.5</b>	0.7	0.3
Nitration	Abs/cm	ASTM D7624*	>20	<b>10.9</b>	11.9	10.8
Sulfation	Abs/.1mm	ASTM D7415*	>30	<b>21.9</b>	25.6	23.1

FLUID DEGRADATION		method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	ASTM D7414*	>25	<b>18.6</b>	21.4	18.2



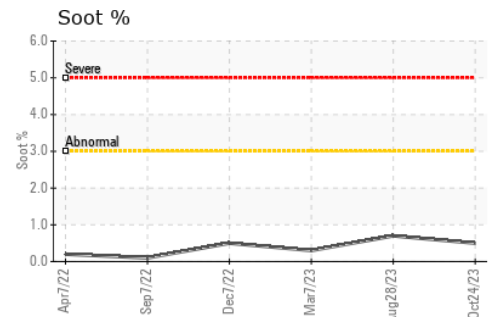
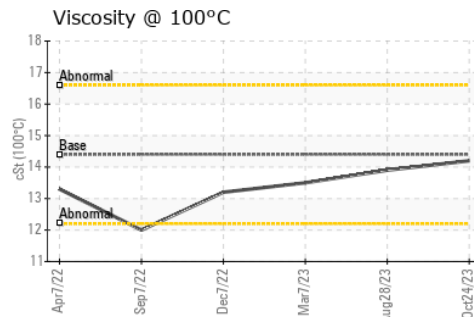
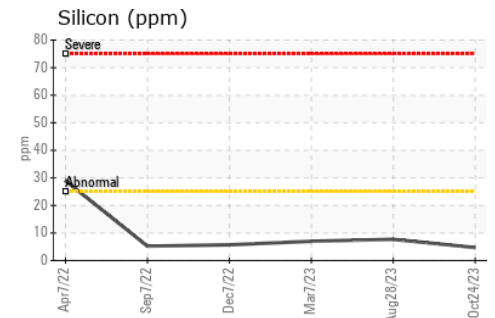
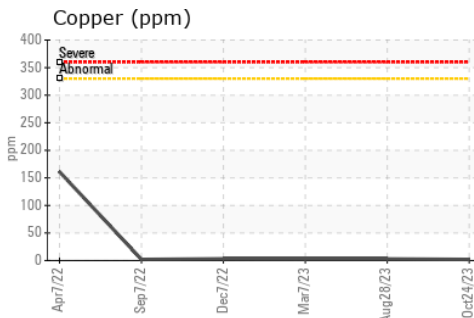
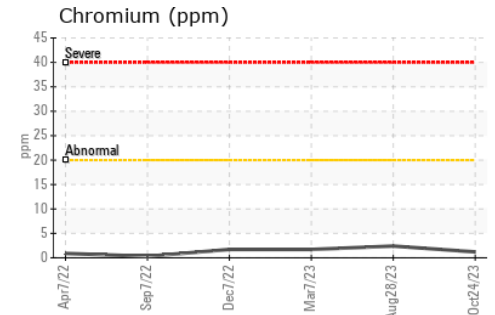
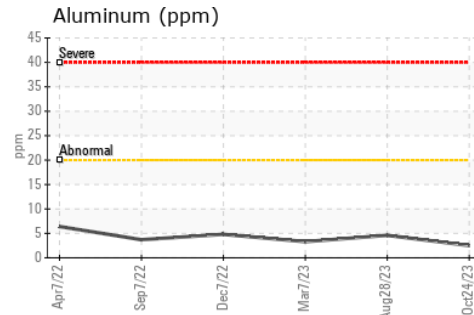
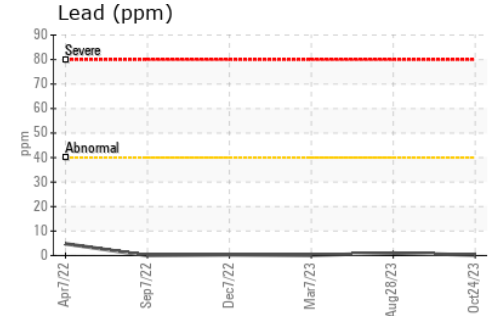
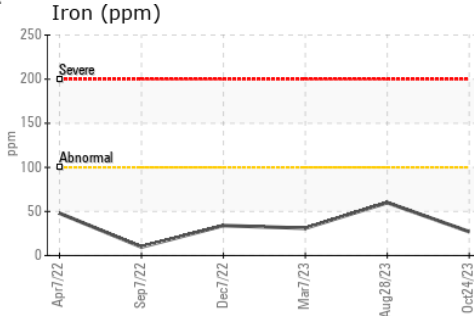
# OIL ANALYSIS REPORT



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	14.2	13.9

## GRAPHS



**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 GFL Environmental - 777 - Belleville-Municipal waste  
**Sample No.** : GFL0093928 **Received** : 26 Oct 2023 197 Putman Industrial Road  
**Lab Number** : 02591977 **Diagnosed** : 26 Oct 2023 Belleville, ON  
**Unique Number** : 5669056 **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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