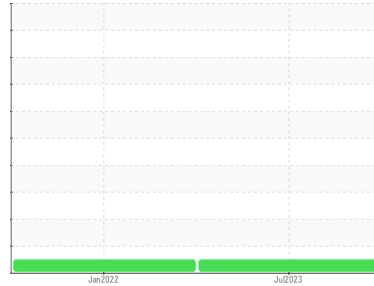




# OIL ANALYSIS REPORT

Sample Rating Trend

**NORMAL**



Machine Id  
**828010**

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>GFL0062924</b>	GFL0041316	---
Sample Date	Client Info			<b>06 Jul 2023</b>	23 Jan 2022	---
Machine Age	hrs	Client Info		<b>10252</b>	6931	---
Oil Age	hrs	Client Info		<b>0</b>	0	---
Oil Changed	Client Info			<b>N/A</b>	N/A	---
Sample Status				<b>NORMAL</b>	NORMAL	---

CONTAMINATION		method	limit/base	current	history1	history2
Fuel	WC Method	>5		<b>&lt;1.0</b>	<1.0	---
Glycol	WC Method			<b>NEG</b>	NEG	---

WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185(m)	>100	<b>17</b>	41	---
Chromium	ppm	ASTM D5185(m)	>20	<b>&lt;1</b>	1	---
Nickel	ppm	ASTM D5185(m)	>4	<b>&lt;1</b>	<1	---
Titanium	ppm	ASTM D5185(m)		<b>0</b>	2	---
Silver	ppm	ASTM D5185(m)	>3	<b>&lt;1</b>	<1	---
Aluminum	ppm	ASTM D5185(m)	>20	<b>2</b>	6	---
Lead	ppm	ASTM D5185(m)	>40	<b>&lt;1</b>	<1	---
Copper	ppm	ASTM D5185(m)	>330	<b>1</b>	2	---
Tin	ppm	ASTM D5185(m)	>15	<b>0</b>	0	---
Antimony	ppm	ASTM D5185(m)		<b>0</b>	0	---
Vanadium	ppm	ASTM D5185(m)		<b>0</b>	0	---
Beryllium	ppm	ASTM D5185(m)		<b>0</b>	0	---
Cadmium	ppm	ASTM D5185(m)		<b>0</b>	0	---

ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185(m)	250	<b>7</b>	53	---
Barium	ppm	ASTM D5185(m)	10	<b>0</b>	0	---
Molybdenum	ppm	ASTM D5185(m)	100	<b>60</b>	60	---
Manganese	ppm	ASTM D5185(m)		<b>&lt;1</b>	<1	---
Magnesium	ppm	ASTM D5185(m)	450	<b>942</b>	1090	---
Calcium	ppm	ASTM D5185(m)	3000	<b>1072</b>	1011	---
Phosphorus	ppm	ASTM D5185(m)	1150	<b>1016</b>	1041	---
Zinc	ppm	ASTM D5185(m)	1350	<b>1173</b>	1257	---
Sulfur	ppm	ASTM D5185(m)	4250	<b>2455</b>	2699	---
Lithium	ppm	ASTM D5185(m)		<b>&lt;1</b>	<1	---

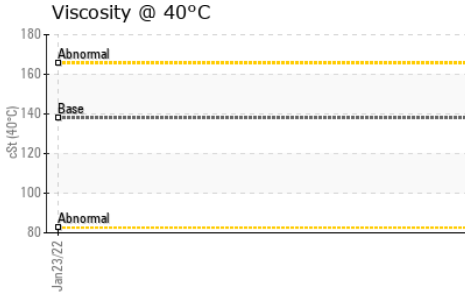
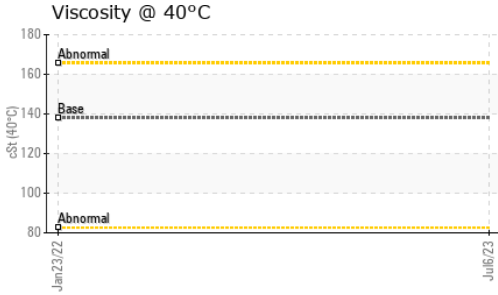
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)	>25	<b>4</b>	6	---
Sodium	ppm	ASTM D5185(m)	>216	<b>7</b>	7	---
Potassium	ppm	ASTM D5185(m)	>20	<b>2</b>	7	---

INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	ASTM D7844*	>3	<b>0.3</b>	0	---
Nitration	Abs/cm	ASTM D7624*	>20	<b>8.6</b>	4.2	---
Sulfation	Abs/.1mm	ASTM D7415*	>30	<b>19.9</b>	14.1	---

FLUID DEGRADATION		method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	ASTM D7414*	>25	<b>16.2</b>	6.6	---



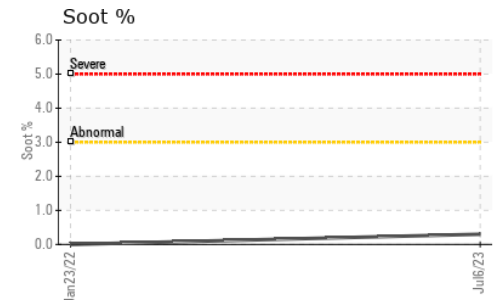
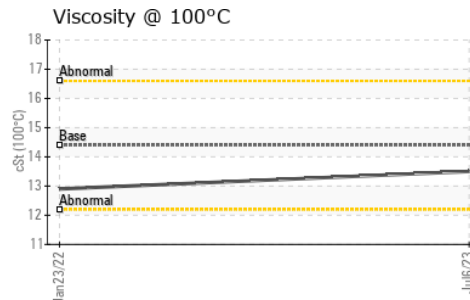
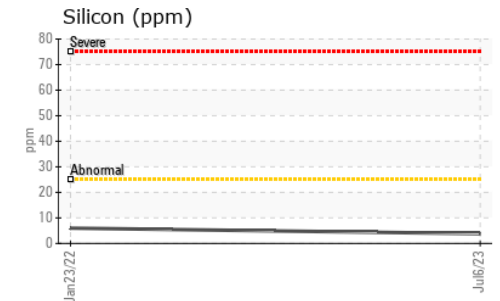
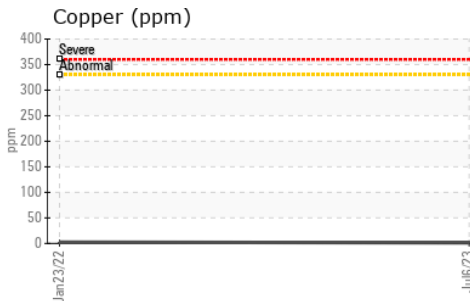
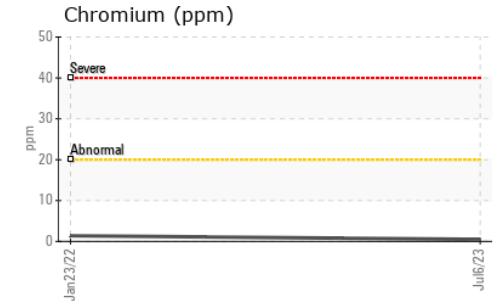
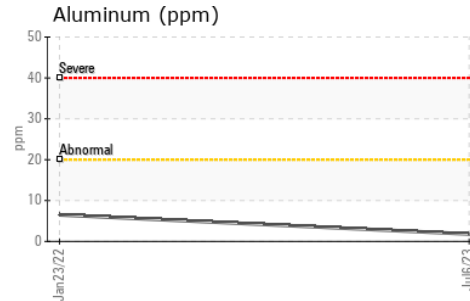
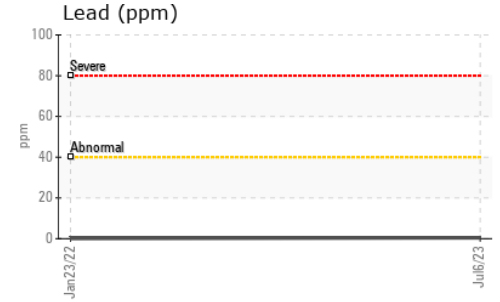
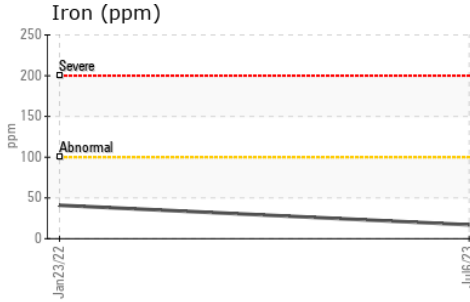
# OIL ANALYSIS REPORT



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 @ 40°C	cSt	ASTM D7279(m)	138	94.0	---
Visc @ 100°C	cSt	ASTM D7279(m)	14.4	13.5	12.9
Viscosity Index (VI)	Scale	ASTM D2270*	102	144	---

## GRAPHS



**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 GFL Environmental - 777 - Belleville-Municipal waste  
**Sample No.** : GFL0062924 **Received** : 18 Jul 2023 197 Putman Industrial Road  
**Lab Number** : 02570572 **Diagnosed** : 18 Jul 2023 Belleville, ON  
**Unique Number** : 5607618 **Diagnostician** : Wes Davis CA K8N 4Z6  
**Test Package** : MOB 1 ( Additional Tests: KV40, VI )  
 Contact: Andrea Michael  
 amichael@gflenv.com

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.

T: (613)962-7144  
 F: (613)962-1994