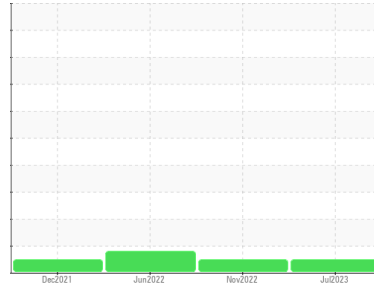




# OIL ANALYSIS REPORT

Sample Rating Trend

**NORMAL**



Machine Id  
**925006**

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	history 1	history 2
Sample Number	Client Info	<b>GFL0078517</b>	GFL0065883	GFL0046673
Sample Date	Client Info	<b>08 Jul 2023</b>	29 Nov 2022	24 Jun 2022
Machine Age	hrs	Client Info	19796	18405
Oil Age	hrs	Client Info	1391	268
Oil Changed	Client Info	<b>N/A</b>	Changed	Changed
Sample Status		<b>NORMAL</b>	NORMAL	ABNORMAL

## CONTAMINATION

method	limit/base	current	history 1	history 2
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	history 1	history 2
Iron	ppm ASTM D5185(m) >120	<b>4</b>	2	18
Chromium	ppm ASTM D5185(m) >20	<b>0</b>	0	<1
Nickel	ppm ASTM D5185(m) >5	<b>1</b>	2	▲ 8
Titanium	ppm ASTM D5185(m) >2	<b>&lt;1</b>	<1	3
Silver	ppm ASTM D5185(m) >2	<b>0</b>	0	0
Aluminum	ppm ASTM D5185(m) >20	<b>2</b>	1	9
Lead	ppm ASTM D5185(m) >40	<b>0</b>	0	1
Copper	ppm ASTM D5185(m) >330	<b>&lt;1</b>	<1	7
Tin	ppm ASTM D5185(m) >15	<b>0</b>	0	<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	history 1	history 2
Boron	ppm ASTM D5185(m) 250	<b>106</b>	6	5
Barium	ppm ASTM D5185(m) 10	<b>0</b>	0	0
Molybdenum	ppm ASTM D5185(m) 100	<b>7</b>	57	56
Manganese	ppm ASTM D5185(m)	<b>&lt;1</b>	<1	<1
Magnesium	ppm ASTM D5185(m) 450	<b>76</b>	913	874
Calcium	ppm ASTM D5185(m) 3000	<b>2055</b>	1077	1028
Phosphorus	ppm ASTM D5185(m) 1150	<b>1008</b>	1051	892
Zinc	ppm ASTM D5185(m) 1350	<b>1122</b>	1137	1116
Sulfur	ppm ASTM D5185(m) 4250	<b>2796</b>	2632	2131
Lithium	ppm ASTM D5185(m)	<b>&lt;1</b>	<1	<1

## CONTAMINANTS

method	limit/base	current	history 1	history 2
Silicon	ppm ASTM D5185(m) >25	<b>9</b>	6	8
Sodium	ppm ASTM D5185(m) >158	<b>2</b>	2	4
Potassium	ppm ASTM D5185(m) >20	<b>5</b>	0	4

## INFRA-RED

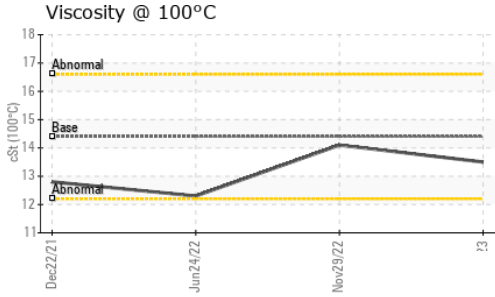
method	limit/base	current	history 1	history 2
Soot %	% ASTM D7844* >4	<b>0.1</b>	0	0.4
Nitration	Abs/cm ASTM D7624* >20	<b>7.8</b>	5.1	9.2
Sulfation	Abs/.1mm ASTM D7415* >30	<b>21.0</b>	19.1	22.5

## FLUID DEGRADATION

method	limit/base	current	history 1	history 2
Oxidation	Abs/.1mm ASTM D7414* >25	<b>17.0</b>	14.1	16.4



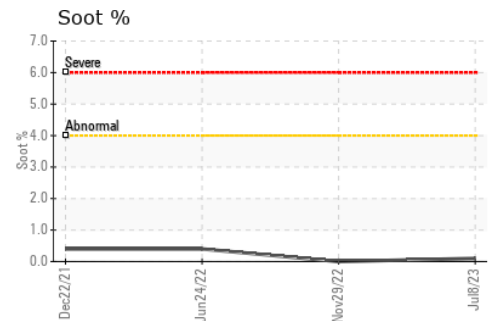
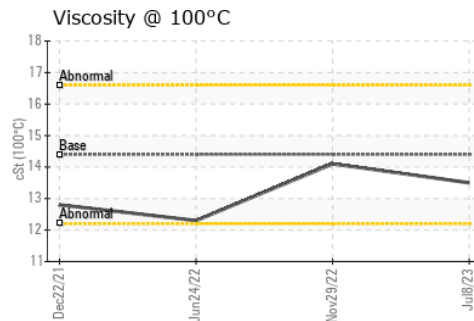
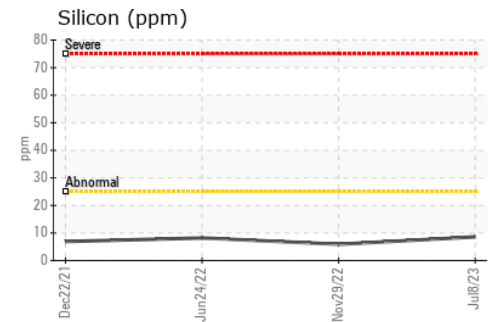
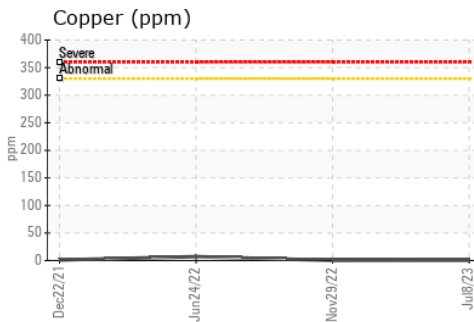
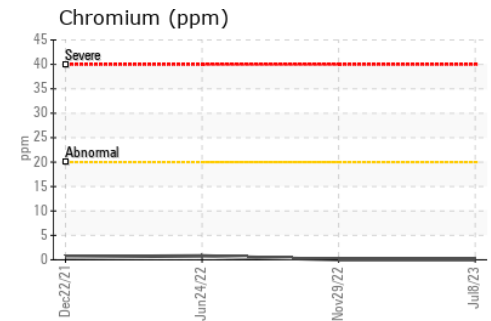
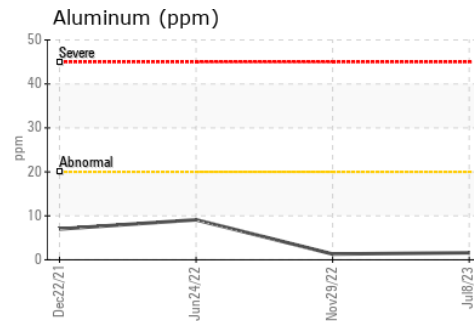
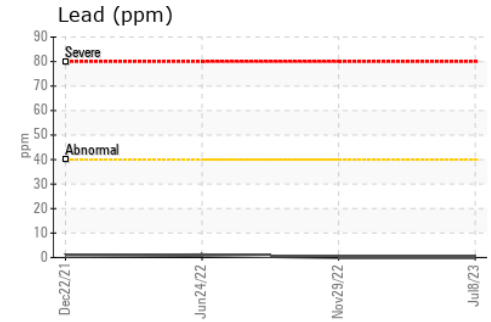
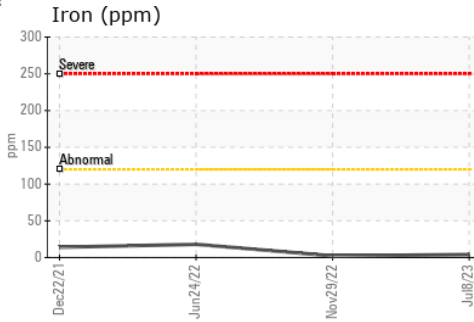
# OIL ANALYSIS REPORT



VISUAL	method	limit/base	current	history 1	history 2
Emulsified Water	scalar	Visual*	>0.2	NEG	NEG
Free Water	scalar	Visual*		NEG	NEG

FLUID PROPERTIES	method	limit/base	current	history 1	history 2
Visc @ 100°C	cSt	ASTM D7279(m)	14.4	13.5	14.1

## GRAPHS



**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 **GFL Environmental - 246 - Windsor**  
**Sample No.** : GFL0078517 **Received** : 11 Jul 2023  
**Lab Number** : 02569035 **Diagnosed** : 11 Jul 2023  
**Unique Number** : 5606081 **Diagnostician** : Wes Davis  
**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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