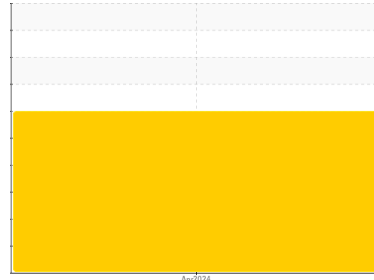


# OIL ANALYSIS REPORT

Sample Rating Trend



**WEAR**



Area  
**[6100286939]**

Machine Id

**68**

Component

**Diesel Engine**

Fluid

**DIESEL ENGINE OIL SAE 40 (--- GAL)**

## DIAGNOSIS

### ▲ Recommendation

We recommend that you drain the oil from the component if this has not already been done. We recommend an early resample to monitor this condition. The fluid was not specified, however, a fluid match indicates that this fluid is (GENERIC) DIESEL ENGINE OIL SAE 40. Please confirm. Please specify the component make and model with your next sample.

### ▲ Wear

Aluminum ppm levels are severe. Piston wear is indicated.

### Contamination

There is no indication of any contamination in the oil.

### Fluid Condition

The oil is no longer serviceable as a result of the abnormal and/or severe wear.

## SAMPLE INFORMATION

	method	limit/base	current	history1	history2
Sample Number	Client Info		<b>WA0020856</b>	---	---
Sample Date	Client Info		<b>12 Apr 2024</b>	---	---
Machine Age	hrs	Client Info	<b>0</b>	---	---
Oil Age	hrs	Client Info	<b>0</b>	---	---
Oil Changed	Client Info		<b>N/A</b>	---	---
Sample Status			<b>SEVERE</b>	---	---

## CONTAMINATION

	method	limit/base	current	history1	history2
Fuel	WC Method	>5	<b>&lt;1.0</b>	---	---
Water	WC Method	>0.2	<b>NEG</b>	---	---

## WEAR METALS

	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185(m)	>100	<b>38</b>	---
Chromium	ppm	ASTM D5185(m)	>20	<b>2</b>	---
Nickel	ppm	ASTM D5185(m)	>4	<b>2</b>	---
Titanium	ppm	ASTM D5185(m)		<b>0</b>	---
Silver	ppm	ASTM D5185(m)	>3	<b>0</b>	---
Aluminum	ppm	ASTM D5185(m)	>20	<b>▲ 71</b>	---
Lead	ppm	ASTM D5185(m)	>40	<b>0</b>	---
Copper	ppm	ASTM D5185(m)	>330	<b>7</b>	---
Tin	ppm	ASTM D5185(m)	>15	<b>0</b>	---
Antimony	ppm	ASTM D5185(m)		<b>0</b>	---
Vanadium	ppm	ASTM D5185(m)		<b>0</b>	---
Beryllium	ppm	ASTM D5185(m)		<b>0</b>	---
Cadmium	ppm	ASTM D5185(m)		<b>0</b>	---

## ADDITIVES

	method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185(m)	250	<b>121</b>	---
Barium	ppm	ASTM D5185(m)	10	<b>0</b>	---
Molybdenum	ppm	ASTM D5185(m)	100	<b>9</b>	---
Manganese	ppm	ASTM D5185(m)		<b>&lt;1</b>	---
Magnesium	ppm	ASTM D5185(m)	450	<b>46</b>	---
Calcium	ppm	ASTM D5185(m)	3000	<b>2175</b>	---
Phosphorus	ppm	ASTM D5185(m)	1150	<b>965</b>	---
Zinc	ppm	ASTM D5185(m)	1350	<b>1126</b>	---
Sulfur	ppm	ASTM D5185(m)	4250	<b>2857</b>	---
Lithium	ppm	ASTM D5185(m)		<b>&lt;1</b>	---

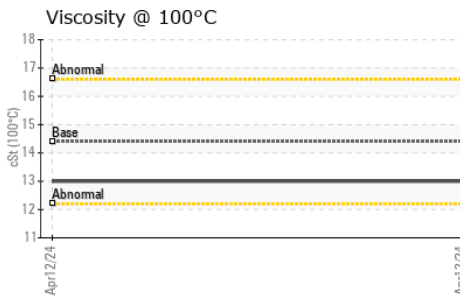
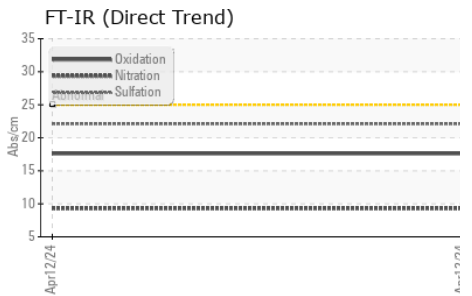
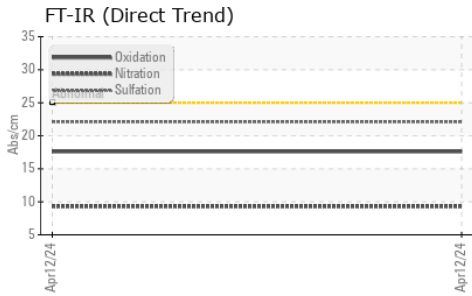
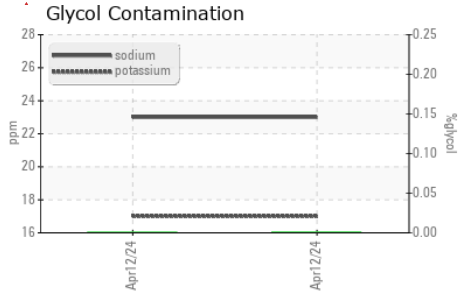
## CONTAMINANTS

	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)	>25	<b>15</b>	---
Sodium	ppm	ASTM D5185(m)	>216	<b>23</b>	---
Potassium	ppm	ASTM D5185(m)	>20	<b>17</b>	---
Glycol	%	ASTM D7922*		<b>0.0</b>	---

## INFRA-RED

	method	limit/base	current	history1	history2
Soot %	%	ASTM D7844*	>3	<b>0.4</b>	---
Nitration	Abs/cm	ASTM D7624*	>20	<b>9.3</b>	---
Sulfation	Abs./1mm	ASTM D7415*	>30	<b>22.1</b>	---

# OIL ANALYSIS REPORT

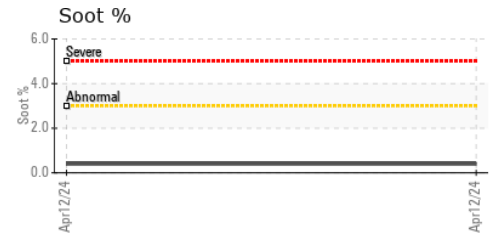
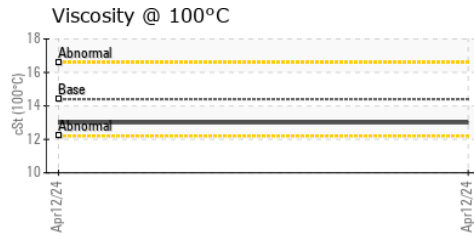
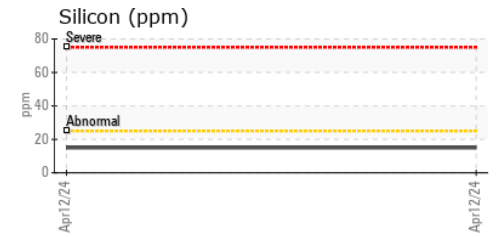
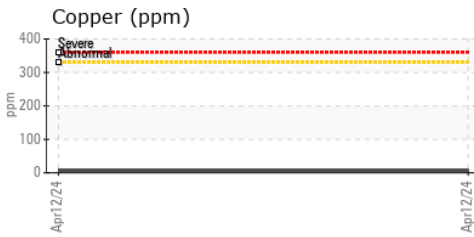
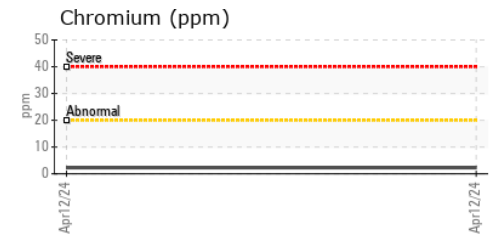
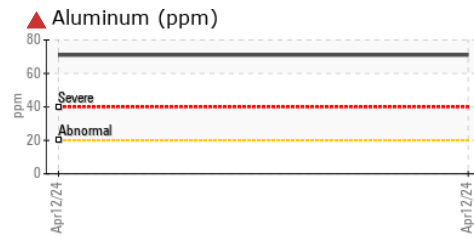
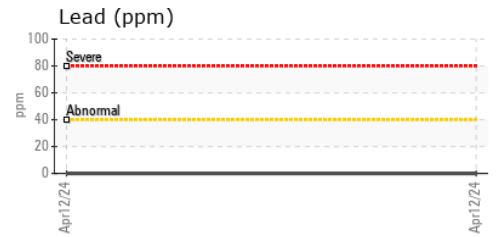
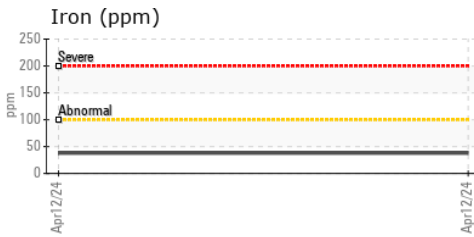


FLUID DEGRADATION	method	limit/base	current	history1	history2	
Oxidation	Abs./1mm	ASTM D7414*	>25	17.6	---	---

VISUAL	method	limit/base	current	history1	history2	
White Metal	scalar	Visual*	NONE	NONE	---	---
Yellow Metal	scalar	Visual*	NONE	NONE	---	---
Precipitate	scalar	Visual*	NONE	NONE	---	---
Silt	scalar	Visual*	NONE	LIGHT	---	---
Debris	scalar	Visual*	NONE	NONE	---	---
Sand/Dirt	scalar	Visual*	NONE	NONE	---	---
Appearance	scalar	Visual*	NORML	NORML	---	---
Odor	scalar	Visual*	NORML	NORML	---	---
Emulsified Water	scalar	Visual*	>0.2	NEG	---	---
Free Water	scalar	Visual*		NEG	---	---

FLUID PROPERTIES	method	limit/base	current	history1	history2	
Visc @ 100°C	cSt	ASTM D7279(m)	14.4	13.0	---	---

## GRAPHS



**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9  
**Sample No.** : WA0020856 **Received** : 16 Apr 2024  
**Lab Number** : 02629108 **Tested** : 16 Apr 2024  
**Unique Number** : 5762240 **Diagnosed** : 17 Apr 2024 - Kevin Marson  
**Test Package** : MOB 1 ( Additional Tests: Glycol, Visual )

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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