



# OIL ANALYSIS REPORT

Sample Rating Trend



**NORMAL**



Machine Id  
**YANMAR NO UNIT WC0840681**

Component  
**Diesel Engine**

Fluid  
**SHELL ROTELLA T SB SAE 0W30 (--- 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	history1	history2
Sample Number	Client Info			<b>WC0840681</b>	---	---
Sample Date	Client Info			<b>08 Aug 2023</b>	---	---
Machine Age	hrs	Client Info		<b>4058</b>	---	---
Oil Age	hrs	Client Info		<b>40</b>	---	---
Oil Changed	Client Info			<b>Changed</b>	---	---
Sample Status				<b>NORMAL</b>	---	---

CONTAMINATION		method	limit/base	current	history1	history2
Fuel	WC Method		>4.0	<b>&lt;1.0</b>	---	---
Glycol	WC Method			<b>NEG</b>	---	---

WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185(m)	>80	<b>5</b>	---	---
Chromium	ppm	ASTM D5185(m)	>6	<b>&lt;1</b>	---	---
Nickel	ppm	ASTM D5185(m)	>2	<b>0</b>	---	---
Titanium	ppm	ASTM D5185(m)	>2	<b>0</b>	---	---
Silver	ppm	ASTM D5185(m)	>2	<b>0</b>	---	---
Aluminum	ppm	ASTM D5185(m)	>20	<b>2</b>	---	---
Lead	ppm	ASTM D5185(m)	>95	<b>1</b>	---	---
Copper	ppm	ASTM D5185(m)	>85	<b>&lt;1</b>	---	---
Tin	ppm	ASTM D5185(m)	>9	<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)		<b>16</b>	---	---
Barium	ppm	ASTM D5185(m)		<b>0</b>	---	---
Molybdenum	ppm	ASTM D5185(m)		<b>110</b>	---	---
Manganese	ppm	ASTM D5185(m)		<b>0</b>	---	---
Magnesium	ppm	ASTM D5185(m)		<b>85</b>	---	---
Calcium	ppm	ASTM D5185(m)		<b>2550</b>	---	---
Phosphorus	ppm	ASTM D5185(m)		<b>1092</b>	---	---
Zinc	ppm	ASTM D5185(m)		<b>1186</b>	---	---
Sulfur	ppm	ASTM D5185(m)		<b>2578</b>	---	---
Lithium	ppm	ASTM D5185(m)		<b>&lt;1</b>	---	---

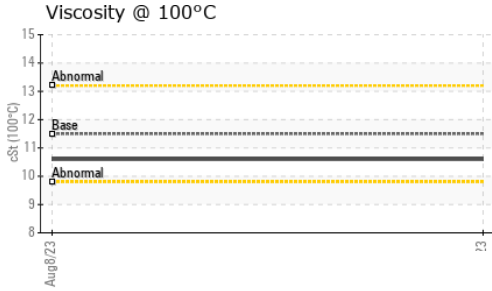
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)	>25	<b>16</b>	---	---
Sodium	ppm	ASTM D5185(m)		<b>2</b>	---	---
Potassium	ppm	ASTM D5185(m)	>20	<b>&lt;1</b>	---	---

INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	ASTM D7844*		<b>0</b>	---	---
Nitration	Abs/cm	ASTM D7624*	>20	<b>7.9</b>	---	---
Sulfation	Abs/.1mm	ASTM D7415*	>30	<b>18.6</b>	---	---

FLUID DEGRADATION		method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	ASTM D7414*	>25	<b>13.3</b>	---	---



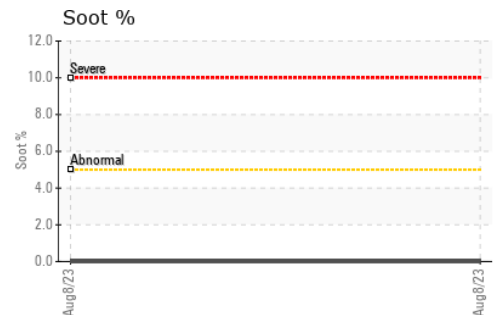
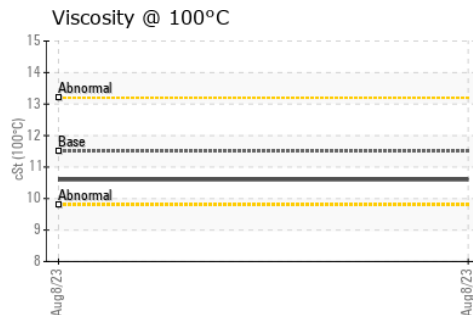
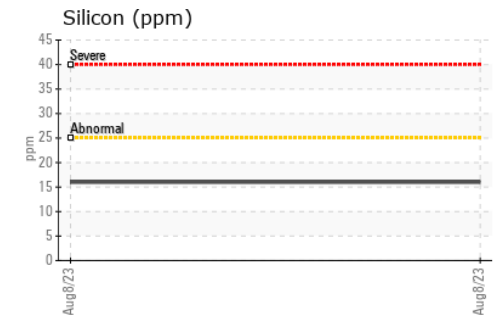
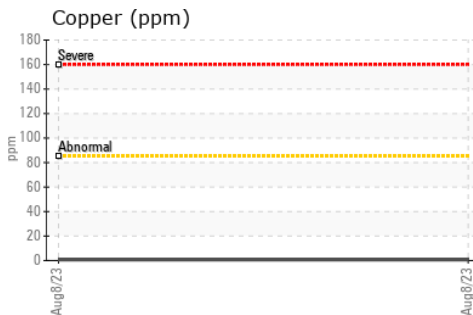
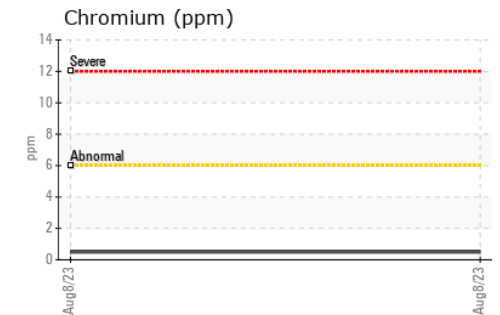
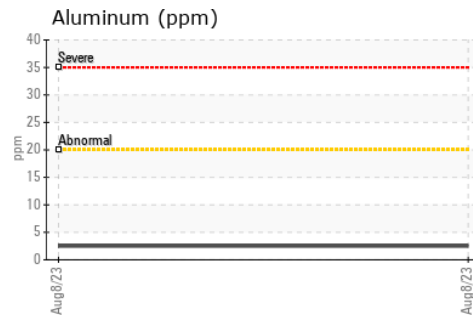
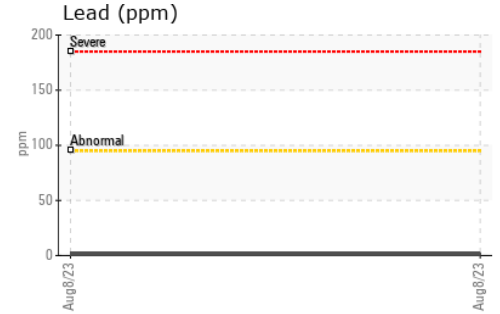
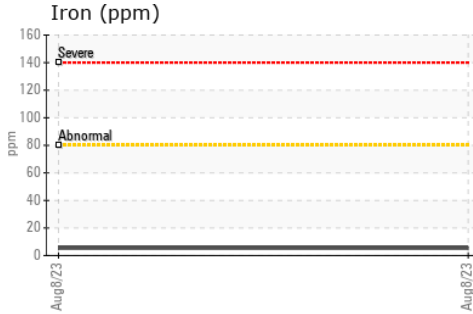
# OIL ANALYSIS REPORT



VISUAL	method	limit/base	current	history1	history2
Emulsified Water	scalar	Visual*	>0.1	NEG	---
Free Water	scalar	Visual*		NEG	---

FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 100°C	cSt	ASTM D7279(m)	11.5	10.6	---

## GRAPHS



**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 **BARNARD'S TRUCK SALES & SERV.**  
**Sample No.** : WC0840681 **Received** : 23 Aug 2023 2135 18TH AVENUE EAST, P.O. BOX 602  
**Lab Number** : 02577628 **Diagnosed** : 23 Aug 2023 OWEN SOUND, ON  
**Unique Number** : 5630688 **Diagnostician** : Wes Davis CA N4K 5R4  
**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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