



# OIL ANALYSIS REPORT

Sample Rating Trend

**NORMAL**



Machine Id  
**YANMAR CALL ME CURLY (S/N 20E0Z)**

Component  
**Genset**

Fluid  
**SHELL ROTELLA T4 15W40 (--- GAL)**



## DIAGNOSIS

### Recommendation

Confirm the source of the lubricant being utilized for top-up/fill. 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

Additive levels indicate the addition of a different brand, or type of oil. 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>WC0870440</b>	---	---
Sample Date	Client Info			<b>11 Oct 2023</b>	---	---
Machine Age	hrs	Client Info		<b>1555</b>	---	---
Oil Age	hrs	Client Info		<b>88</b>	---	---
Oil Changed	Client Info			<b>N/A</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>4</b>	---	---
Chromium	ppm	ASTM D5185(m)	>6	<b>0</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>&lt;1</b>	---	---
Aluminum	ppm	ASTM D5185(m)	>20	<b>1</b>	---	---
Lead	ppm	ASTM D5185(m)	>95	<b>0</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>54</b>	---	---
Barium	ppm	ASTM D5185(m)		<b>&lt;1</b>	---	---
Molybdenum	ppm	ASTM D5185(m)		<b>37</b>	---	---
Manganese	ppm	ASTM D5185(m)		<b>0</b>	---	---
Magnesium	ppm	ASTM D5185(m)		<b>437</b>	---	---
Calcium	ppm	ASTM D5185(m)		<b>1564</b>	---	---
Phosphorus	ppm	ASTM D5185(m)		<b>997</b>	---	---
Zinc	ppm	ASTM D5185(m)		<b>1144</b>	---	---
Sulfur	ppm	ASTM D5185(m)		<b>2645</b>	---	---
Lithium	ppm	ASTM D5185(m)		<b>&lt;1</b>	---	---

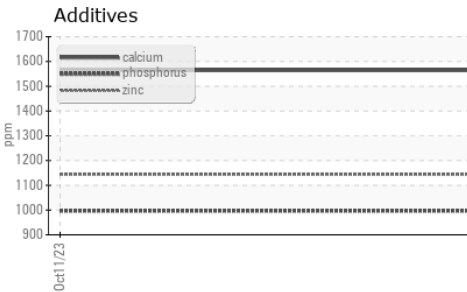
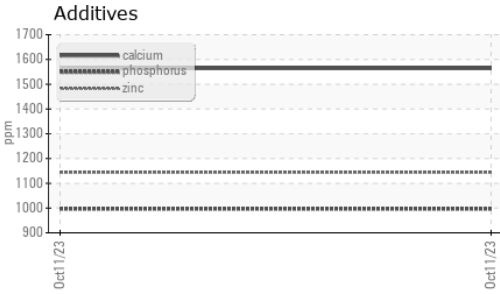
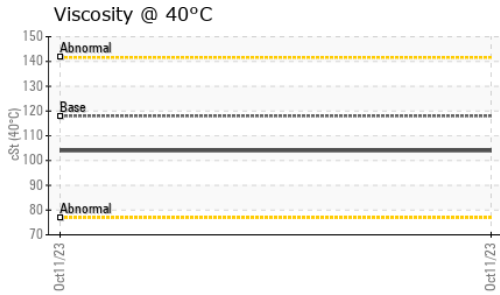
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)	>25	<b>8</b>	---	---
Sodium	ppm	ASTM D5185(m)		<b>4</b>	---	---
Potassium	ppm	ASTM D5185(m)	>20	<b>&lt;1</b>	---	---

INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	ASTM D7844*		<b>0</b>	---	---
Nitration	Abs/cm	ASTM D7624*	>20	<b>7.5</b>	---	---
Sulfation	Abs/.1mm	ASTM D7415*	>30	<b>20.5</b>	---	---

FLUID DEGRADATION		method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	ASTM D7414*	>25	<b>18.1</b>	---	---



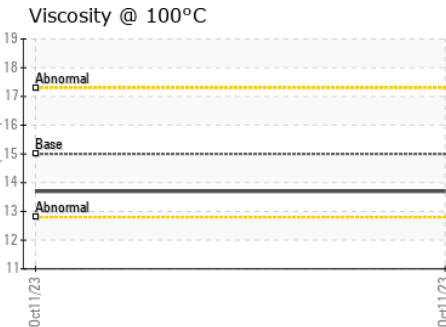
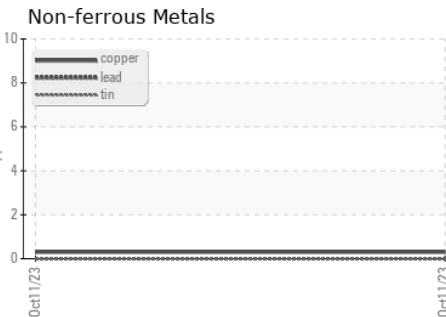
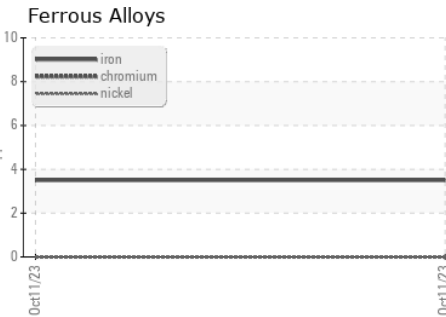
# OIL ANALYSIS REPORT



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	NONE	---
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*	>0.1	NEG	---
Free Water	scalar	Visual*		NEG	---

FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D7279(m)	118	104	---
Visc @ 100°C	cSt	ASTM D7279(m)	15	13.7	---
Viscosity Index (VI)	Scale	ASTM D2270*	133	131	---

## GRAPHS



**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9  
**Sample No.** : WC0870440 **Received** : 16 Oct 2023  
**Lab Number** : 02589406 **Diagnosed** : 17 Oct 2023  
**Unique Number** : 5658472 **Diagnostician** : Kevin Marson  
**Test Package** : MAR 1 ( Additional Tests: KV40, VI )

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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