



# OIL ANALYSIS REPORT

Sample Rating Trend

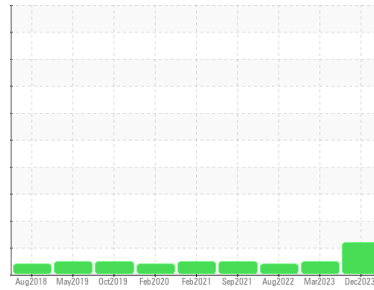
SEDIMENT



Machine Id  
**DEISTER 14011**

Component  
**Upper Bearing**

Fluid  
**SHELL MORLINA OIL ISO 320 (4 GAL)**



## DIAGNOSIS

### Recommendation

No corrective action is recommended at this time. Resample at the next service interval to monitor.

### Wear

All component wear rates are normal.

### Contamination

There is a moderate amount of visible silt present in the sample.

### Fluid Condition

Viscosity of sample indicates oil is within ISO 220 range, advise investigate. Confirm oil type.

## SAMPLE INFORMATION

method	limit/base	current	history1	history2
Sample Number	Client Info	<b>WC0672675</b>	WC0749205	WC0632077
Sample Date	Client Info	<b>21 Dec 2023</b>	20 Mar 2023	04 Aug 2022
Machine Age	mths	Client Info	<b>0</b>	0
Oil Age	mths	Client Info	<b>8</b>	8
Oil Changed	Client Info	<b>Not Chngd</b>	Changed	Changed
Sample Status		<b>ATTENTION</b>	NORMAL	MARGINAL

## CONTAMINATION

method	limit/base	current	history1	history2
Water	WC Method >0.1	<b>NEG</b>	NEG	NEG

## WEAR METALS

method	limit/base	current	history1	history2	
Iron	ppm	ASTM D5185m >200	<b>64</b>	76	17
Chromium	ppm	ASTM D5185m >5	<b>&lt;1</b>	<1	0
Nickel	ppm	ASTM D5185m >5	<b>0</b>	0	0
Titanium	ppm	ASTM D5185m >5	<b>0</b>	0	0
Silver	ppm	ASTM D5185m	<b>0</b>	0	0
Aluminum	ppm	ASTM D5185m >25	<b>&lt;1</b>	2	<1
Lead	ppm	ASTM D5185m >50	<b>&lt;1</b>	0	<1
Copper	ppm	ASTM D5185m >150	<b>5</b>	7	2
Tin	ppm	ASTM D5185m >10	<b>&lt;1</b>	0	<1
Antimony	ppm	ASTM D5185m	<b>---</b>	---	---
Vanadium	ppm	ASTM D5185m	<b>0</b>	0	0
Cadmium	ppm	ASTM D5185m	<b>0</b>	0	0

## ADDITIVES

method	limit/base	current	history1	history2	
Boron	ppm	ASTM D5185m	<b>0</b>	0	0
Barium	ppm	ASTM D5185m	<b>0</b>	0	0
Molybdenum	ppm	ASTM D5185m	<b>0</b>	0	0
Manganese	ppm	ASTM D5185m	<b>&lt;1</b>	1	<1
Magnesium	ppm	ASTM D5185m	<b>0</b>	<1	0
Calcium	ppm	ASTM D5185m	<b>0</b>	3	0
Phosphorus	ppm	ASTM D5185m	<b>4</b>	3	39
Zinc	ppm	ASTM D5185m	<b>0</b>	<1	0
Sulfur	ppm	ASTM D5185m	<b>8143</b>	8141	10141

## CONTAMINANTS

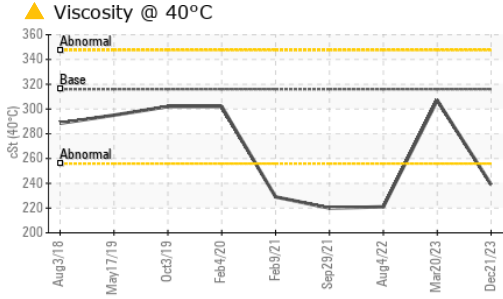
method	limit/base	current	history1	history2	
Silicon	ppm	ASTM D5185m >25	<b>7</b>	10	4
Sodium	ppm	ASTM D5185m	<b>&lt;1</b>	1	0
Potassium	ppm	ASTM D5185m >20	<b>&lt;1</b>	0	0

## VISUAL

method	limit/base	current	history1	history2	
White Metal	scalar	*Visual NONE	<b>NONE</b>	NONE	NONE
Yellow Metal	scalar	*Visual NONE	<b>NONE</b>	NONE	NONE
Precipitate	scalar	*Visual NONE	<b>NONE</b>	NONE	NONE
Silt	scalar	*Visual NONE	<b>▲ MODER</b>	NONE	MODER
Debris	scalar	*Visual NONE	<b>NONE</b>	NONE	▲ MODER
Sand/Dirt	scalar	*Visual NONE	<b>NONE</b>	NONE	NONE
Appearance	scalar	*Visual NORML	<b>NORML</b>	NORML	NORML
Odor	scalar	*Visual NORML	<b>NORML</b>	NORML	NORML
Emulsified Water	scalar	*Visual >0.1	<b>NEG</b>	NEG	NEG
Free Water	scalar	*Visual	<b>NEG</b>	NEG	NEG



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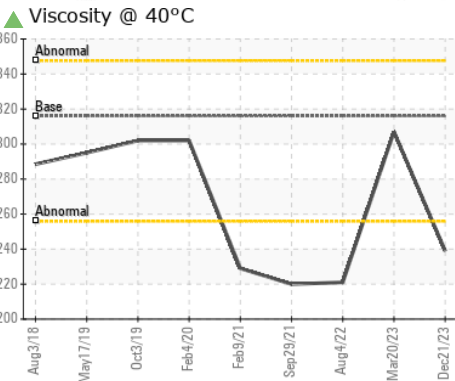
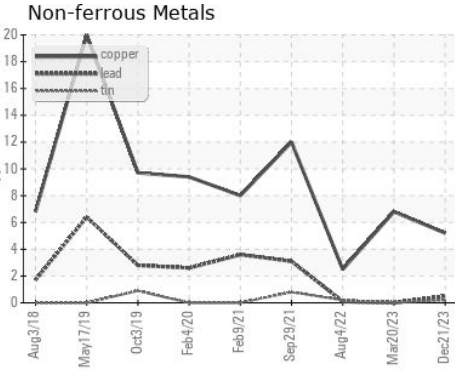
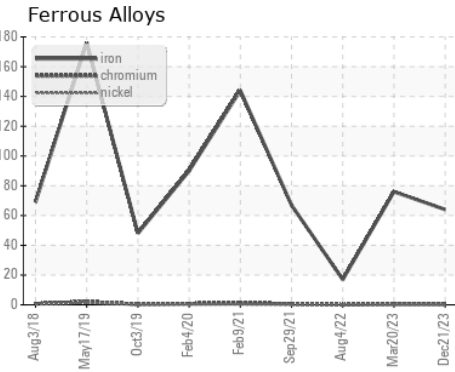
### FLUID PROPERTIES

	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445 316	▲ 239	307	221

### SAMPLE IMAGES

	method	limit/base	current	history1	history2
Color			no image	no image	no image
Bottom			no image	no image	no image

### GRAPHS



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : WC0672675  
**Lab Number** : 06057530  
**Unique Number** : 10823479  
**Test Package** : CONST

**WAKE STONE CORPORATION-CARY**  
 222 STAR LANE  
 CARY, NC  
 US 27591  
 Contact: PAXTON LANIER  
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To discuss this sample report, contact Customer Service at 1-800-237-1369.

\* - Denotes test methods that are outside of the ISO 17025 scope of accreditation.

Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)