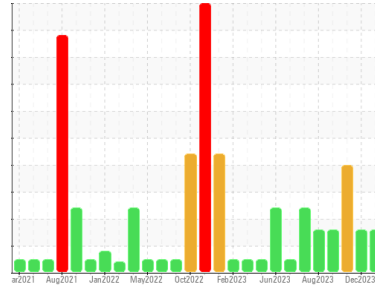




# OIL ANALYSIS REPORT

Sample Rating Trend



**WATER**



Machine Id  
**5073**  
 Component  
**Gearbox**  
 Fluid  
**SHELL OMALA 68 (--- GAL)**

## DIAGNOSIS

### ▲ Recommendation

We advise that you check for the source of water entry. We recommend an early resample to monitor this condition.

### Wear

All component wear rates are normal.

### ▲ Contamination

There is a moderate concentration of water present 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>WC0840647</b>	WC0840639	WC0840617
Sample Date	Client Info		<b>13 Feb 2024</b>	08 Dec 2023	03 Nov 2023
Machine Age	hrs	Client Info	<b>5387</b>	5096	4881
Oil Age	hrs	Client Info	<b>291</b>	539	324
Oil Changed	Client Info		<b>Not Changed</b>	Changed	Not Changed
Sample Status			<b>ABNORMAL</b>	MARGINAL	ABNORMAL

## WEAR METALS

	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m >200	<b>36</b>	2	18
Chromium	ppm	ASTM D5185m >10	<b>&lt;1</b>	0	<1
Nickel	ppm	ASTM D5185m >10	<b>0</b>	0	0
Titanium	ppm	ASTM D5185m	<b>&lt;1</b>	0	<1
Silver	ppm	ASTM D5185m	<b>0</b>	<1	0
Aluminum	ppm	ASTM D5185m >25	<b>5</b>	<1	1
Lead	ppm	ASTM D5185m >50	<b>10</b>	0	6
Copper	ppm	ASTM D5185m >200	<b>20</b>	4	11
Tin	ppm	ASTM D5185m >10	<b>2</b>	0	1
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>	<1	<1
Molybdenum	ppm	ASTM D5185m	<b>0</b>	0	0
Manganese	ppm	ASTM D5185m	<b>&lt;1</b>	<1	0
Magnesium	ppm	ASTM D5185m	<b>4</b>	4	<1
Calcium	ppm	ASTM D5185m	<b>12</b>	11	1
Phosphorus	ppm	ASTM D5185m	<b>139</b>	279	210
Zinc	ppm	ASTM D5185m	<b>4</b>	11	0
Sulfur	ppm	ASTM D5185m	<b>8482</b>	8702	9750

## CONTAMINANTS

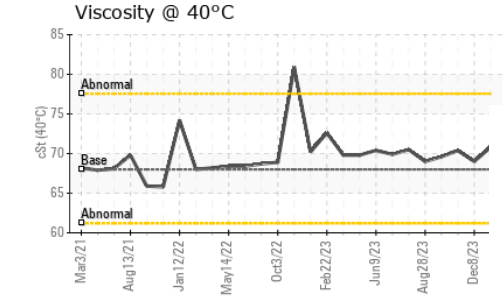
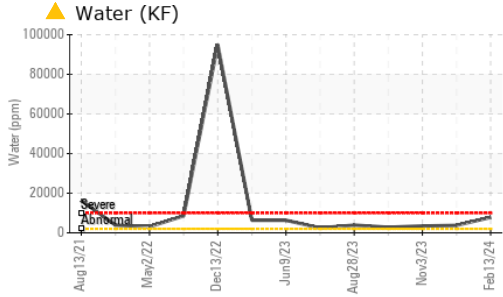
	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m >50	<b>12</b>	4	4
Sodium	ppm	ASTM D5185m	<b>0</b>	0	0
Potassium	ppm	ASTM D5185m >20	<b>0</b>	0	2
Water	%	ASTM D6304 >0.2	<b>▲ 0.783</b>	▲ 0.376	▲ 0.346
ppm Water	ppm	ASTM D6304 >2000	<b>▲ 7830</b>	▲ 3760	▲ 3460

## 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>NONE</b>	NONE	MODER
Debris	scalar	*Visual NONE	<b>NONE</b>	NONE	NONE
Sand/Dirt	scalar	*Visual NONE	<b>NONE</b>	NONE	NONE
Appearance	scalar	*Visual NORML	<b>NORML</b>	NORML	● HAZY
Odor	scalar	*Visual NORML	<b>NORML</b>	NORML	NORML
Emulsified Water	scalar	*Visual >0.2	<b>0.2%</b>	0.2%	0.2%
Free Water	scalar	*Visual	<b>NEG</b>	NEG	● 10.0

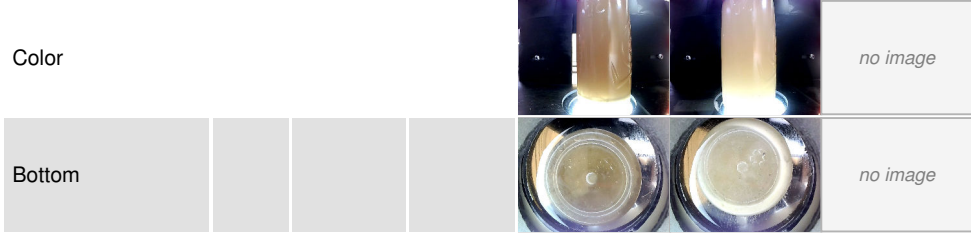


# OIL ANALYSIS REPORT

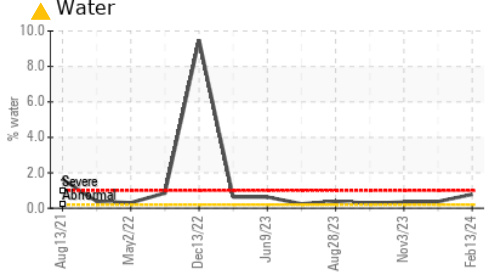
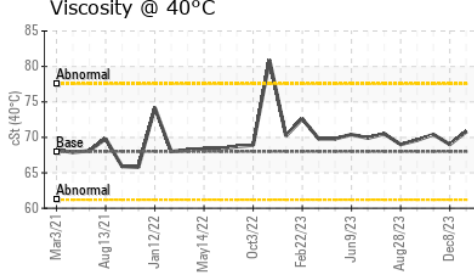
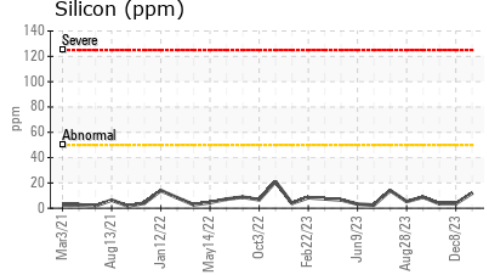
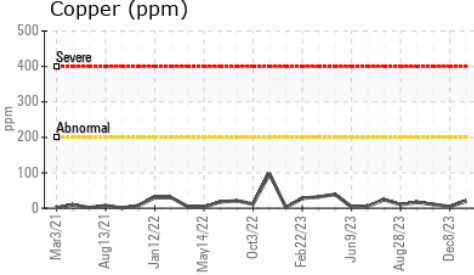
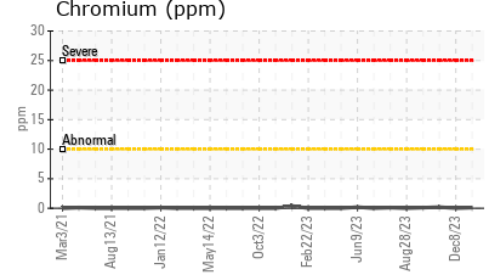
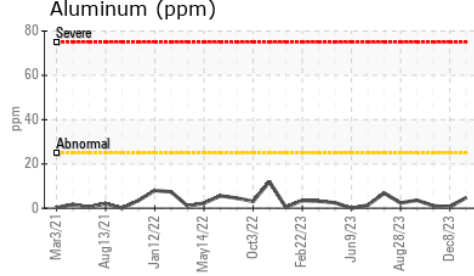
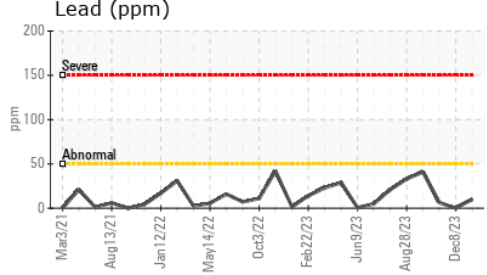
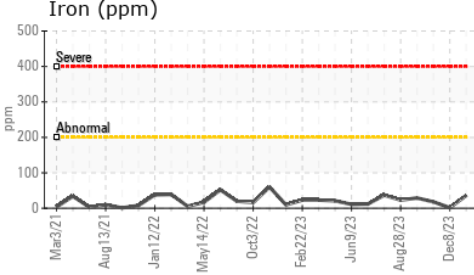


FLUID PROPERTIES	method	limit/base	current	history1	history2	
Visc @ 40°C	cSt	ASTM D445	68.0	<b>70.8</b>	69.0	70.4

SAMPLE IMAGES	method	limit/base	current	history1	history2
---------------	--------	------------	---------	----------	----------



## GRAPHS



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
 Sample No. : WC0840647 Received : 26 Feb 2024  
 Lab Number : 06101253 Tested : 28 Feb 2024  
 Unique Number : 10899483 Diagnosed : 28 Feb 2024 - Don Baldrige  
 Test Package : MOB 1 ( Additional Tests: KF )

**WAKE STONE CORPORATION-MONCURE**  
 P.O. BOX 158  
 MONCURE, NC  
 US 27559  
 Contact: ROBBIE BOGAN  
 robbiebogan@wakestonecorp.com  
 T:  
 F: (919)776-1341

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)