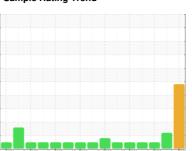


# **OIL ANALYSIS REPORT**

## Sample Rating Trend



# WATER



# NORDBERG 5017

Component

**Circulating System** 

SHELL OMALA 68 (220 GAL)

## DIAGNOSIS

#### Recommendation

We advise that you check for the source of water entry. We advise that you follow the water drain-off procedure for this component, and use off-line filtration to improve the cleanliness of the system fluid. We recommend an early resample to monitor this condition.

## Wear

All component wear rates are normal.

#### Contamination

There is a high amount of visible silt present in the sample. There is a light concentration of water present in the oil. Free water present.

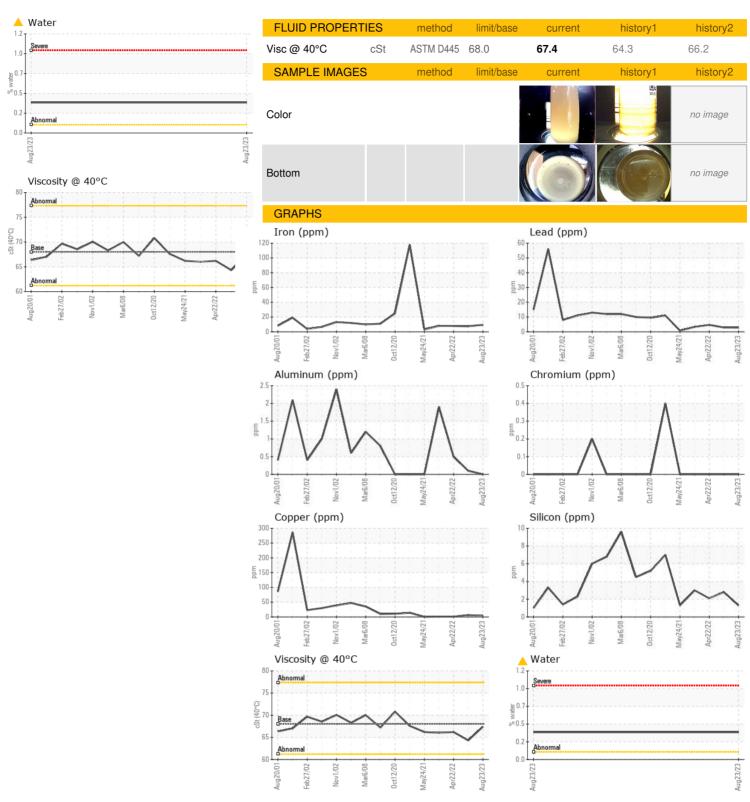
#### **Fluid Condition**

The condition of the oil is acceptable for the time in service.

		Aug2001 Feb	2002 Nov2002 Mar20	08 Oct2020 May2021 Apr20	22 Aug202:	
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0749212	WC0672670	WC0632088
Sample Date		Client Info		23 Aug 2023	06 Jun 2023	22 Apr 2022
Machine Age	hrs	Client Info		0	0	0
Oil Age	hrs	Client Info		948	675	399
Oil Changed		Client Info		Not Changd	Not Changd	Not Changd
Sample Status				ABNORMAL	ABNORMAL	NORMAL
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m		9	8	8
Chromium	ppm	ASTM D5185m		0	0	0
Nickel	ppm	ASTM D5185m		0	0	0
Titanium	ppm	ASTM D5185m		0	<1	0
Silver	ppm	ASTM D5185m		0	0	0
Aluminum	ppm	ASTM D5185m		0	<1	<1
Lead	ppm	ASTM D5185m		3	3	5
Copper	ppm	ASTM D5185m		3	6	1
Tin	ppm	ASTM D5185m		<1	<1	<1
Antimony	ppm	ASTM D5185m				
Vanadium	ppm	ASTM D5185m		0	0	0
Cadmium	ppm	ASTM D5185m		0	0	<1
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		0	0	5
Barium	ppm	ASTM D5185m		0	0	0
Molybdenum	ppm	ASTM D5185m		<1	0	3
Manganese	ppm	ASTM D5185m		<1	<1	<1
Magnesium	ppm	ASTM D5185m		0	0	<1
Calcium	ppm	ASTM D5185m		20	75	2
Phosphorus	ppm	ASTM D5185m		213	312	273
Zinc	ppm	ASTM D5185m		0	76	11
Sulfur	ppm	ASTM D5185m		10153	8518	7256
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m		1	3	2
Sodium	ppm	ASTM D5185m		<1	<1	0
Potassium	ppm	ASTM D5185m	>20	0	0	<1
Water	%	ASTM D6304		<b>△</b> 0.369		
ppm Water	ppm	ASTM D6304		<b>△</b> 3690		
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	▲ HEAVY	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	▲ HAZY	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML	NORML
Emulsified Water	scalar	*Visual		<b>0.2%</b>	NEG	NEG
Free Water	scalar	*Visual		<u> </u>	NEG	NEG



# **OIL ANALYSIS REPORT**







Laboratory Sample No. Lab Number Unique Number

: 05936478 : 10621749

Test Package : MOB 1 ( Additional Tests: KF )

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : WC0749212 Received : 28 Aug 2023 Diagnosed : 29 Aug 2023

Diagnostician : Don Baldridge

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)

WAKE STONE CORPORATION-CARY

222 STAR LANE CARY, NC

US 27591 Contact: HUNTER BRATTON

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T: