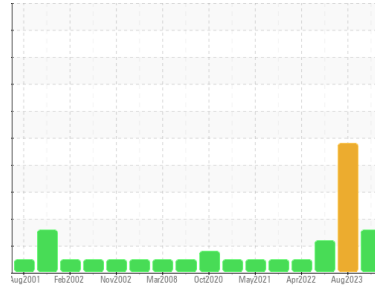




OIL ANALYSIS REPORT

Sample Rating Trend



WATER



Machine Id
NORDBERG 5017
 Component
Circulating System
 Fluid
SHELL OMALA 68 (220 GAL)

DIAGNOSIS

▲ Recommendation

Resample at the next service interval to monitor.

Wear

All component wear rates are normal.

▲ Contamination

There is a light 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		WC0672679	WC0749212	WC0672670
Sample Date	Client Info		21 Dec 2023	23 Aug 2023	06 Jun 2023
Machine Age	hrs	Client Info	0	0	0
Oil Age	hrs	Client Info	1298	948	675
Oil Changed	Client Info		Not Changed	Not Changed	Not Changed
Sample Status			MARGINAL	ABNORMAL	ABNORMAL

WEAR METALS

	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	11	9	8
Chromium	ppm	ASTM D5185m	0	0	0
Nickel	ppm	ASTM D5185m	0	0	0
Titanium	ppm	ASTM D5185m	0	0	<1
Silver	ppm	ASTM D5185m	0	0	0
Aluminum	ppm	ASTM D5185m	0	0	<1
Lead	ppm	ASTM D5185m	7	3	3
Copper	ppm	ASTM D5185m	5	3	6
Tin	ppm	ASTM D5185m	1	<1	<1
Vanadium	ppm	ASTM D5185m	0	0	0
Cadmium	ppm	ASTM D5185m	0	0	0

ADDITIVES

	method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	0	0
Barium	ppm	ASTM D5185m	0	0	0
Molybdenum	ppm	ASTM D5185m	0	<1	0
Manganese	ppm	ASTM D5185m	<1	<1	<1
Magnesium	ppm	ASTM D5185m	<1	0	0
Calcium	ppm	ASTM D5185m	0	20	75
Phosphorus	ppm	ASTM D5185m	200	213	312
Zinc	ppm	ASTM D5185m	0	0	76
Sulfur	ppm	ASTM D5185m	8550	10153	8518

CONTAMINANTS

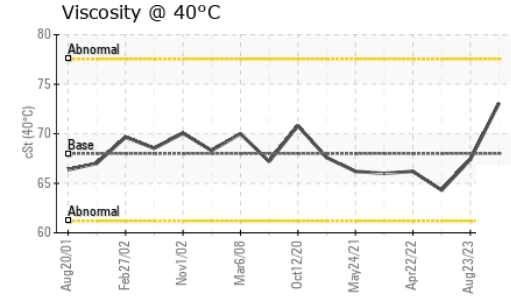
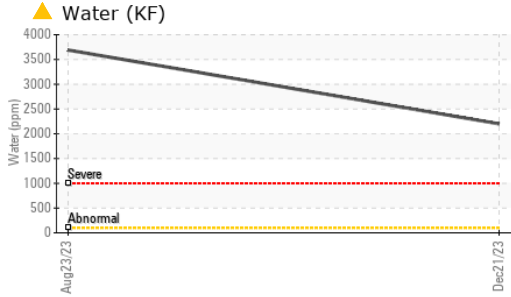
	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	3	1	3
Sodium	ppm	ASTM D5185m	0	<1	<1
Potassium	ppm	ASTM D5185m >20	1	0	0
Water	%	ASTM D6304	▲ 0.220	▲ 0.369	---
ppm Water	ppm	ASTM D6304	▲ 2200	▲ 3690	---

VISUAL

	method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	▲ HEAVY
Debris	scalar	*Visual	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	▲ HAZY
Odor	scalar	*Visual	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	0.2%	▲ 0.2%	NEG
Free Water	scalar	*Visual	NEG	▲ 1.0	NEG

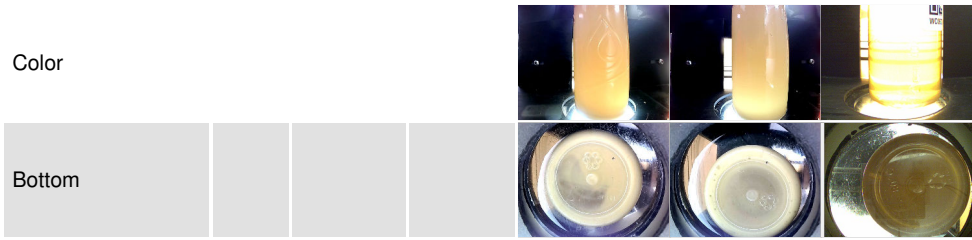


OIL ANALYSIS REPORT

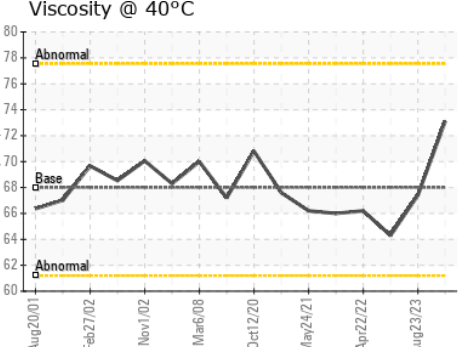
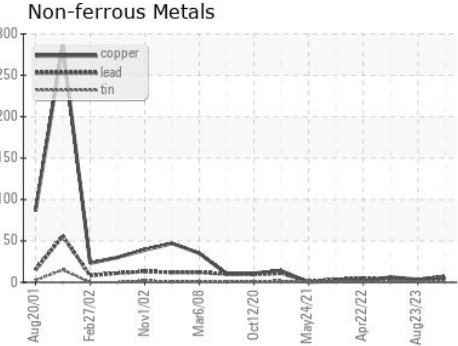
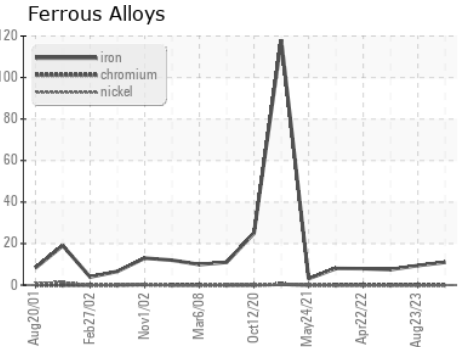


FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445 68.0	73.1	67.4	64.3

SAMPLE IMAGES	method	limit/base	current	history1	history2
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GRAPHS



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : WC0672679 **Received** : 10 Jan 2024
Lab Number : 06057535 **Diagnosed** : 12 Jan 2024
Unique Number : 10823484 **Diagnostician** : Don Baldrige
Test Package : CONST (Additional Tests: KF)

WAKE STONE CORPORATION-CARY
 222 STAR LANE
 CARY, NC
 US 27591
 Contact: HUNTER BRATTON
 hbratton@wakestonecorp.com
 T:
 F: (919)677-0988

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)