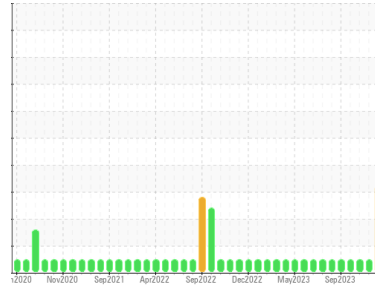




OIL ANALYSIS REPORT

Sample Rating Trend



WEAR



Machine Id
NORDBERG 5022 CIRCULATING

Component
Gearbox

Fluid
SHELL OMALA 150 (110 GAL)

DIAGNOSIS

Recommendation

No corrective action is recommended at this time. We recommend an early resample to monitor this condition.

Wear

An increase in the iron level is noted. Bearing and/or bushing wear is indicated.

Contamination

There is no indication of any contamination 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		WC0891239	WC0840648	WC0840634
Sample Date	Client Info		16 Jan 2024	18 Dec 2023	06 Nov 2023
Machine Age	hrs	Client Info	41301	41622	41268
Oil Age	hrs	Client Info	360	236	1391
Oil Changed	Client Info		Not Chngd	Not Chngd	Not Chngd
Sample Status			ATTENTION	NORMAL	NORMAL

CONTAMINATION

	method	limit/base	current	history1	history2
Water	WC Method	>0.2	NEG	NEG	NEG

WEAR METALS

	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m >200	▲ 105	5	55
Chromium	ppm	ASTM D5185m >10	<1	0	<1
Nickel	ppm	ASTM D5185m >10	1	0	0
Titanium	ppm	ASTM D5185m	<1	0	<1
Silver	ppm	ASTM D5185m	0	0	0
Aluminum	ppm	ASTM D5185m >25	10	<1	1
Lead	ppm	ASTM D5185m >50	▲ 26	0	6
Copper	ppm	ASTM D5185m >200	▲ 96	1	4
Tin	ppm	ASTM D5185m >10	▲ 8	0	0
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 6.2	0	0	0
Barium	ppm	ASTM D5185m 0.0	0	0	<1
Molybdenum	ppm	ASTM D5185m 0	<1	0	0
Manganese	ppm	ASTM D5185m	1	<1	<1
Magnesium	ppm	ASTM D5185m 0	3	1	2
Calcium	ppm	ASTM D5185m 0.0	9	13	7
Phosphorus	ppm	ASTM D5185m 512	229	288	267
Zinc	ppm	ASTM D5185m 3.8	0	12	0
Sulfur	ppm	ASTM D5185m 8167	10007	9327	10020

CONTAMINANTS

	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m >50	32	<1	4
Sodium	ppm	ASTM D5185m	4	0	0
Potassium	ppm	ASTM D5185m >20	4	0	2

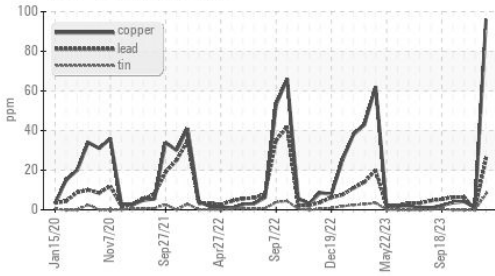
VISUAL

	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	NONE	NONE	NONE
Debris	scalar	*Visual NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual NONE	NONE	NONE	NONE
Appearance	scalar	*Visual NORML	NORML	NORML	NORML
Odor	scalar	*Visual NORML	NORML	NORML	NORML
Emulsified Water	scalar	*Visual >0.2	NEG	NEG	NEG
Free Water	scalar	*Visual	NEG	NEG	NEG

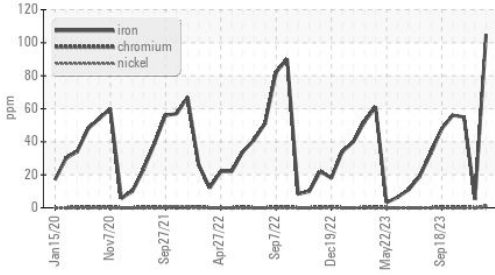


OIL ANALYSIS REPORT

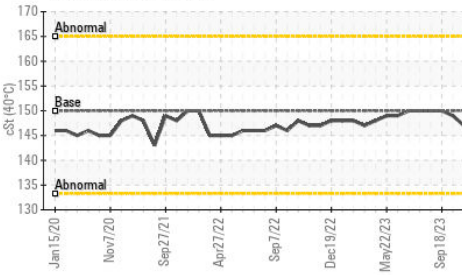
▲ Non-ferrous Metals



▲ Ferrous Alloys



Viscosity @ 40°C



FLUID PROPERTIES

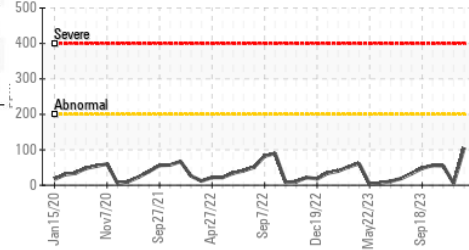
method	limit/base	current	history1	history2	
Visc @ 40°C	cSt ASTM D445	150	147	149	147

SAMPLE IMAGES

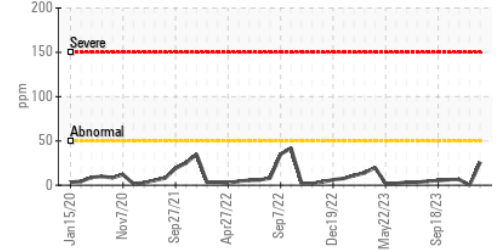
method	limit/base	current	history1	history2	
Color			no image	no image	no image
Bottom			no image	no image	no image

GRAPHS

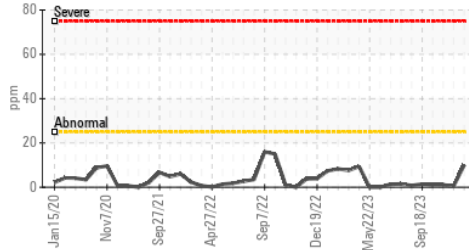
▲ Iron (ppm)



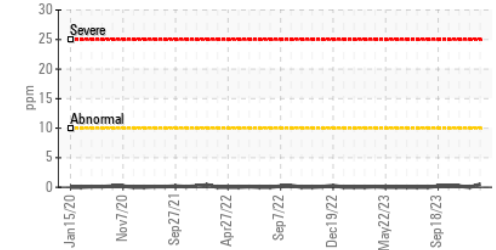
▲ Lead (ppm)



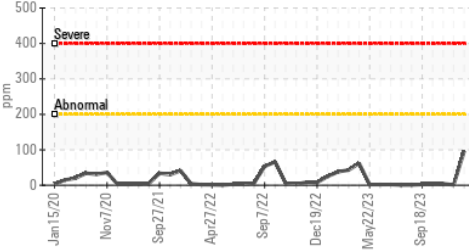
Aluminum (ppm)



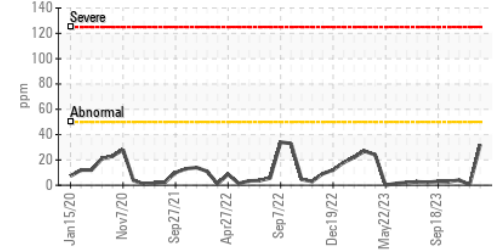
Chromium (ppm)



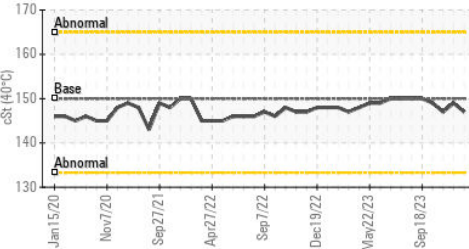
▲ Copper (ppm)



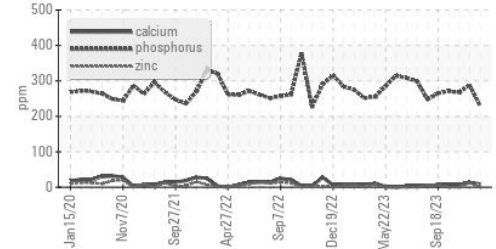
Silicon (ppm)



Viscosity @ 40°C



Additives



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : WC0891239 **Received** : 30 Jan 2024
Lab Number : **06075164** **Diagnosed** : 01 Feb 2024
Unique Number : 10857255 **Diagnostician** : Don Baldrige
Test Package : MOB 1

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)