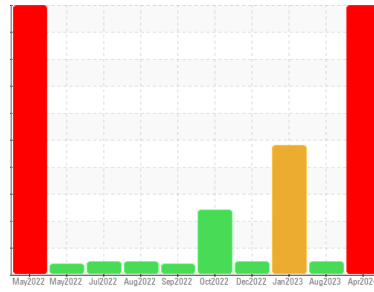




# OIL ANALYSIS REPORT

Sample Rating Trend



Machine Id  
**5061**  
 Component  
**Circulating Gearbox**  
 Fluid  
**SHELL OMALA 68 (--- GAL)**

## DIAGNOSIS

- Recommendation**  
We advise that you check all areas where dirt can enter the system. We advise that you inspect for the source(s) of wear. We recommend an early resample to monitor this condition.
- Wear**  
Bearing and/or gear wear is indicated.
- Contamination**  
Elemental levels of silicon (Si) and aluminum (Al) indicate alumina-silicate (coarse dirt) ingress.
- 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>WC0729164</b>	WC0826918	WC0757474
Sample Date	Client Info			<b>18 Apr 2024</b>	10 Aug 2023	26 Jan 2023
Machine Age	hrs	Client Info		<b>23088</b>	21009	19513
Oil Age	hrs	Client Info		<b>362</b>	465	353
Oil Changed	Client Info			<b>Not Chngd</b>	Not Chngd	Not Chngd
Sample Status				<b>SEVERE</b>	NORMAL	ABNORMAL

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

WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>200	<b>▲ 128</b>	19	89
Chromium	ppm	ASTM D5185m	>10	<b>0</b>	0	<1
Nickel	ppm	ASTM D5185m	>10	<b>&lt;1</b>	<1	2
Titanium	ppm	ASTM D5185m		<b>&lt;1</b>	0	<1
Silver	ppm	ASTM D5185m		<b>0</b>	0	0
Aluminum	ppm	ASTM D5185m	>25	<b>● 16</b>	2	● 19
Lead	ppm	ASTM D5185m	>50	<b>▲ 85</b>	13	▲ 62
Copper	ppm	ASTM D5185m	>200	<b>▲ 413</b>	82	▲ 331
Tin	ppm	ASTM D5185m	>10	<b>▲ 32</b>	5	▲ 25
Vanadium	ppm	ASTM D5185m		<b>&lt;1</b>	0	0
Cadmium	ppm	ASTM D5185m		<b>0</b>	0	0

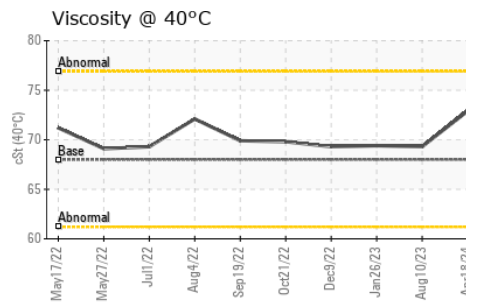
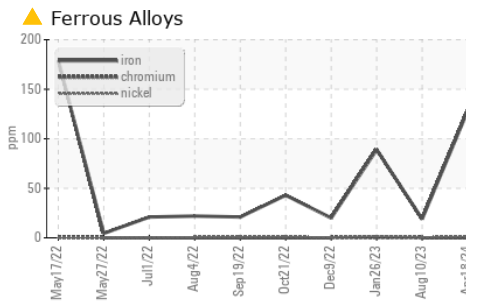
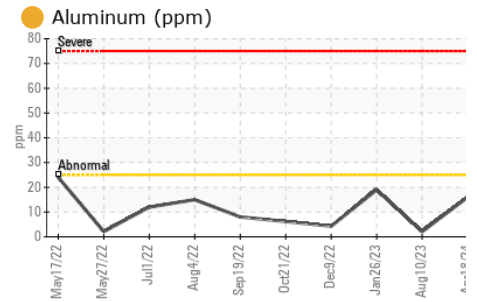
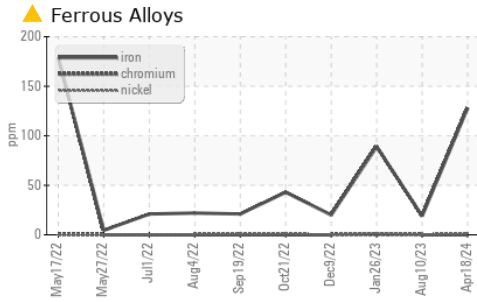
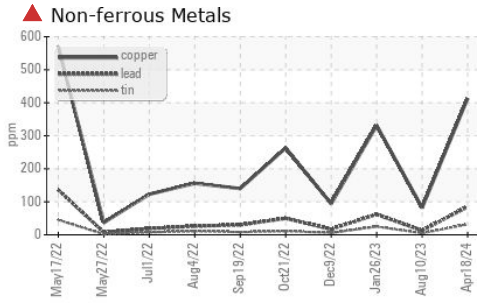
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		<b>6</b>	0	0
Barium	ppm	ASTM D5185m		<b>0</b>	0	0
Molybdenum	ppm	ASTM D5185m		<b>0</b>	0	0
Manganese	ppm	ASTM D5185m		<b>1</b>	<1	<1
Magnesium	ppm	ASTM D5185m		<b>0</b>	1	1
Calcium	ppm	ASTM D5185m		<b>3</b>	18	24
Phosphorus	ppm	ASTM D5185m		<b>145</b>	172	226
Zinc	ppm	ASTM D5185m		<b>&lt;1</b>	0	2
Sulfur	ppm	ASTM D5185m		<b>6747</b>	7731	7010

CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>50	<b>▲ 57</b>	3	▲ 57
Sodium	ppm	ASTM D5185m		<b>6</b>	1	7
Potassium	ppm	ASTM D5185m	>20	<b>8</b>	2	10

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	NONE
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	NORML
Odor	scalar	*Visual	NORML	<b>NORML</b>	NORML	NORML
Emulsified Water	scalar	*Visual	>0.2	<b>NEG</b>	NEG	NEG
Free Water	scalar	*Visual		<b>NEG</b>	NEG	NEG



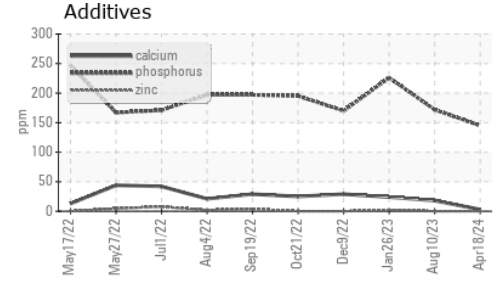
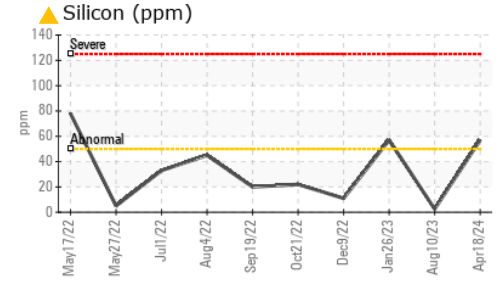
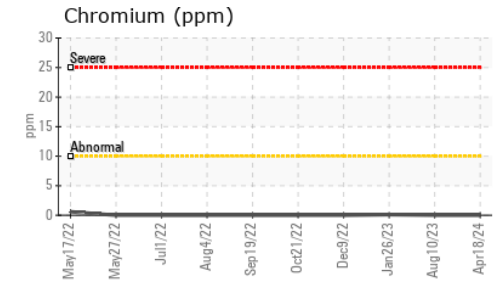
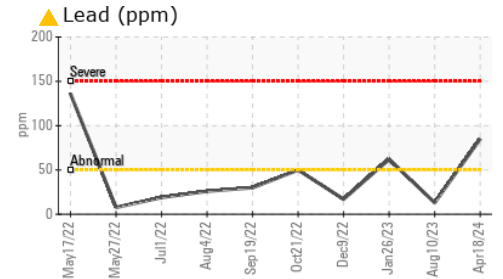
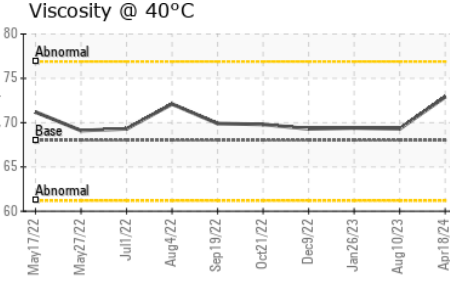
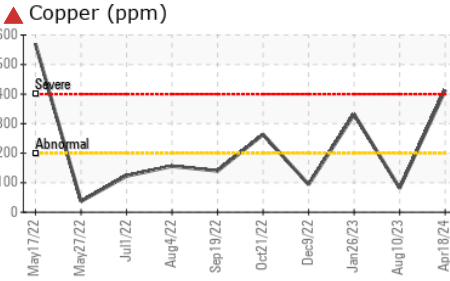
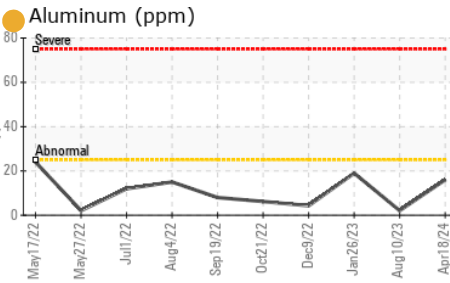
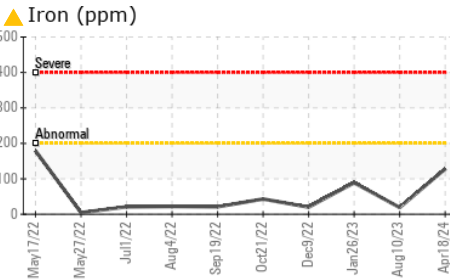
# OIL ANALYSIS REPORT



FLUID PROPERTIES		method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	68.0	<b>72.9</b>	69.3	69.4

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.** : WC0729164  
**Lab Number** : 06155385  
**Unique Number** : 10990808  
**Test Package** : MOB 1

**Received** : 19 Apr 2024  
**Tested** : 22 Apr 2024  
**Diagnosed** : 24 Apr 2024 - Jonathan Hester

**WAKE STONE CORPORATION-KNIGHTDALE**  
 PO BOX 190  
 KNIGHTDALE, NC  
 US 27545  
 Contact: AL PARKER  
 alparker@wakestonecorp.com

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)

F: (919)266-1149