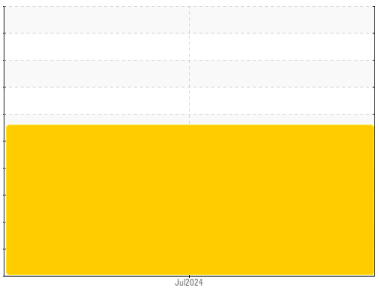
OIL ANALYSIS REPORT

Sample Rating Trend



WATER

Machine Id
5074
Component
Tank Bearing
Fluid
SHELL OMALA S2 GX 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. Else, we recommend that you drain the oil from the component if this has not already been done. We recommend an early resample to monitor this condition.

Wear
All component wear rates are normal.

▲ Contamination
Appearance is unacceptable. There is a high concentration of water present in the oil. Elemental level of silicon (Si) above normal indicating ingress of dirt/seal material.

Fluid Condition
The oil is no longer serviceable due to the presence of contaminants.

SAMPLE INFORMATION		method	limit/base	current	history1	history2
Sample Number		Client Info		**WC0873549**	---	---
Sample Date		Client Info		**16 Jul 2024**	---	---
Machine Age	hrs	Client Info		**2624**	---	---
Oil Age	hrs	Client Info		**1465**	---	---
Oil Changed		Client Info		**Not Changd**	---	---
Sample Status				**SEVERE**	---	---

WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>200	**87**	---	---
Chromium	ppm	ASTM D5185m	>5	**1**	---	---
Nickel	ppm	ASTM D5185m	>5	**0**	---	---
Titanium	ppm	ASTM D5185m	>5	**<1**	---	---
Silver	ppm	ASTM D5185m		**0**	---	---
Aluminum	ppm	ASTM D5185m	>25	**11**	---	---
Lead	ppm	ASTM D5185m	>50	**0**	---	---
Copper	ppm	ASTM D5185m	>150	**0**	---	---
Tin	ppm	ASTM D5185m	>10	**<1**	---	---
Vanadium	ppm	ASTM D5185m		**0**	---	---
Cadmium	ppm	ASTM D5185m		**0**	---	---

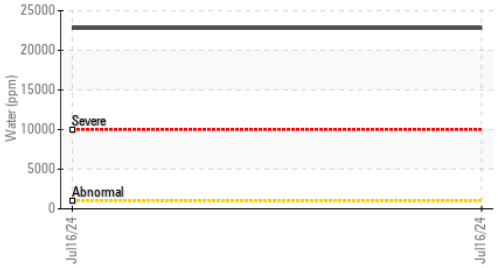
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	6.2	**2**	---	---
Barium	ppm	ASTM D5185m	0.0	**0**	---	---
Molybdenum	ppm	ASTM D5185m	0	**0**	---	---
Manganese	ppm	ASTM D5185m		**<1**	---	---
Magnesium	ppm	ASTM D5185m	0	**2**	---	---
Calcium	ppm	ASTM D5185m	0.0	**12**	---	---
Phosphorus	ppm	ASTM D5185m	290	**276**	---	---
Zinc	ppm	ASTM D5185m	3.8	**7**	---	---
Sulfur	ppm	ASTM D5185m	8167	**12510**	---	---

CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	▲ **60**	---	---
Sodium	ppm	ASTM D5185m		**4**	---	---
Potassium	ppm	ASTM D5185m	>20	**6**	---	---
Water	%	ASTM D6304	>0.1	▲ **2.28**	---	---
ppm Water	ppm	ASTM D6304	>1000	▲ **22800**	---	---

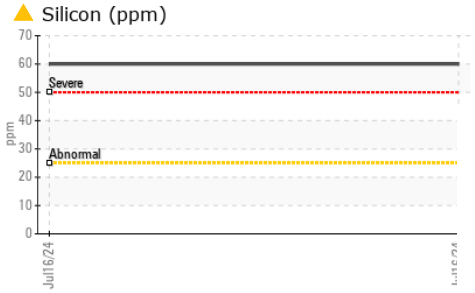
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	**NONE**	---	---
Yellow Metal	scalar	*Visual	NONE	**NONE**	---	---
Precipitate	scalar	*Visual	NONE	**NONE**	---	---
Silt	scalar	*Visual	NONE	**NONE**	---	---
Debris	scalar	*Visual	NONE	**NONE**	---	---
Sand/Dirt	scalar	*Visual	NONE	**NONE**	---	---
Appearance	scalar	*Visual	NORML	● **MILKY**	---	---
Odor	scalar	*Visual	NORML	**NORML**	---	---
Emulsified Water	scalar	*Visual	>0.1	▲ **0.2%**	---	---
Free Water	scalar	*Visual		**NEG**	---	---

OIL ANALYSIS REPORT

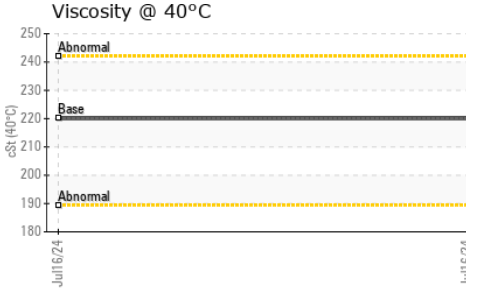
Water (KF)



Silicon (ppm)



Viscosity @ 40°C

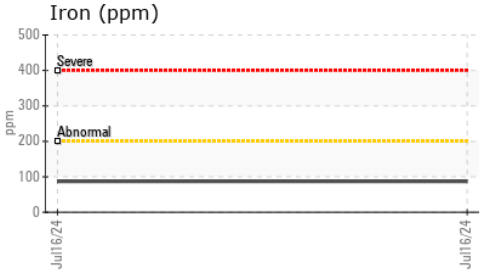


FLUID PROPERTIES		method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	220	**220**	---	---

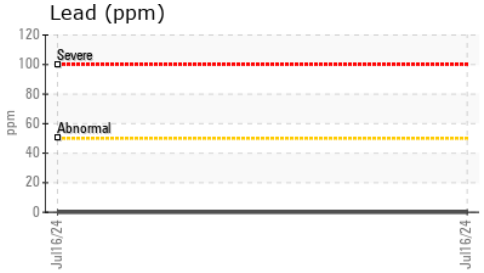
SAMPLE IMAGES	method	limit/base	current	history1	history2
Color				*no image*	*no image*
Bottom				*no image*	*no image*

GRAPHS

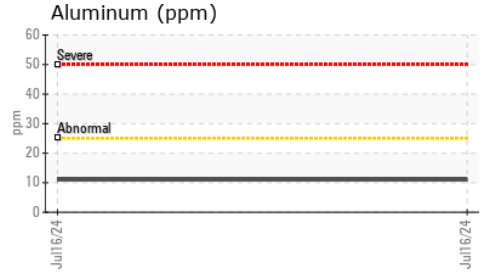
Iron (ppm)



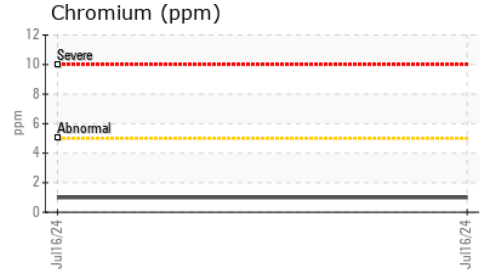
Lead (ppm)



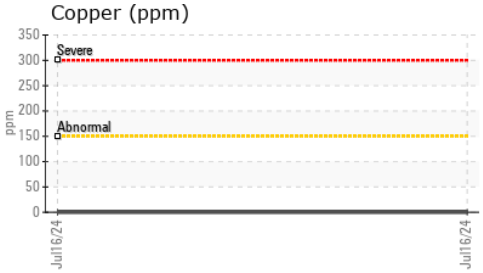
Aluminum (ppm)



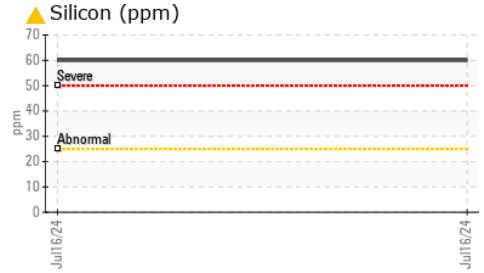
Chromium (ppm)



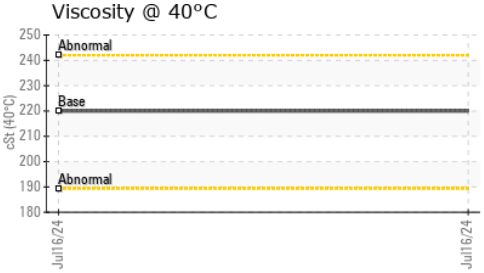
Copper (ppm)



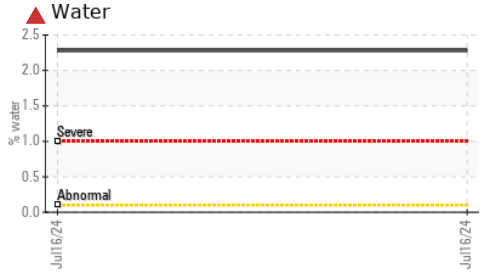
Silicon (ppm)



Viscosity @ 40°C



Water



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : WC0873549 **Received** : 17 Jul 2024
Lab Number : 06239478 **Tested** : 18 Jul 2024
Unique Number : 11128312 **Diagnosed** : 18 Jul 2024 - Doug Bogart
Test Package : MOB 1 (Additional Tests: KF)

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-KNIGHTDALE
PO BOX 190
KNIGHTDALE, NC
US 27545
Contact: AL PARKER
alparker@wakestonecorp.com
T:
F: (919)266-1149

Report Id: WAKKNI [WUSCAR] 06239478 (Generated: 07/18/2024 15:13:37) Rev: 1
Contact/Location: AL PARKER - WAKKNI