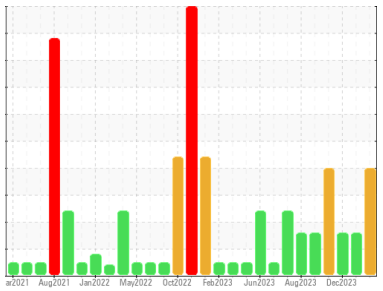
OIL ANALYSIS REPORT

Sample Rating Trend



WATER

Machine Id
5073
Component
Gearbox
Fluid
SHELL OMALA 68 (--- GAL)

DIAGNOSIS

Recommendation
We advise that you check for the source of water entry. The oil change at the time of sampling has been noted. We recommend an early resample to monitor this condition.

Wear
All component wear rates are normal.

Contamination
Appearance is milky. There is a light concentration of water present in the oil. Free water present.

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		**WC0891247**	WC0840647	WC0840639
Sample Date		Client Info		**13 Mar 2024**	13 Feb 2024	08 Dec 2023
Machine Age	hrs	Client Info		**5582**	5387	5096
Oil Age	hrs	Client Info		**12**	291	539
Oil Changed		Client Info		**Changed**	Not Changd	Changed
Sample Status				**ABNORMAL**	ABNORMAL	MARGINAL

WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>200	**9**	36	2
Chromium	ppm	ASTM D5185m	>10	**0**	<1	0
Nickel	ppm	ASTM D5185m	>10	**0**	0	0
Titanium	ppm	ASTM D5185m		**0**	<1	0
Silver	ppm	ASTM D5185m		**0**	0	<1
Aluminum	ppm	ASTM D5185m	>25	**<1**	5	<1
Lead	ppm	ASTM D5185m	>50	**0**	10	0
Copper	ppm	ASTM D5185m	>200	**5**	20	4
Tin	ppm	ASTM D5185m	>10	**<1**	2	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		**0**	0	0
Barium	ppm	ASTM D5185m		**0**	0	<1
Molybdenum	ppm	ASTM D5185m		**0**	0	0
Manganese	ppm	ASTM D5185m		**<1**	<1	<1
Magnesium	ppm	ASTM D5185m		**0**	4	4
Calcium	ppm	ASTM D5185m		**0**	12	11
Phosphorus	ppm	ASTM D5185m		**250**	139	279
Zinc	ppm	ASTM D5185m		**0**	4	11
Sulfur	ppm	ASTM D5185m		**10705**	8482	8702

CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>50	**5**	12	4
Sodium	ppm	ASTM D5185m		**1**	0	0
Potassium	ppm	ASTM D5185m	>20	**0**	0	0
Water	%	ASTM D6304	>0.2	▲ **0.217**	▲ 0.783	▲ 0.376
ppm Water	ppm	ASTM D6304	>2000	▲ **2170**	▲ 7830	▲ 3760

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	● **MILKY**	NORML	NORML
Odor	scalar	*Visual	NORML	**NORML**	NORML	NORML
Emulsified Water	scalar	*Visual	>0.2	▲ **0.2%**	0.2%	0.2%
Free Water	scalar	*Visual		▲ **2.0**	NEG	NEG

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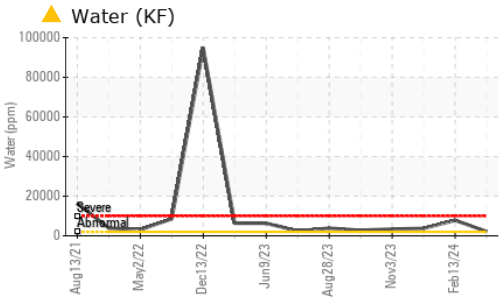
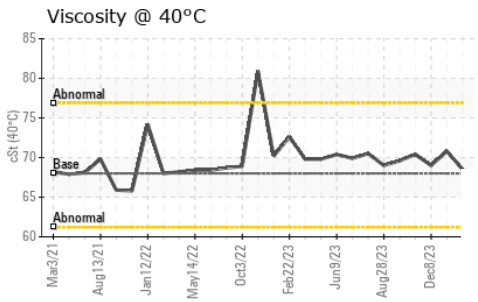
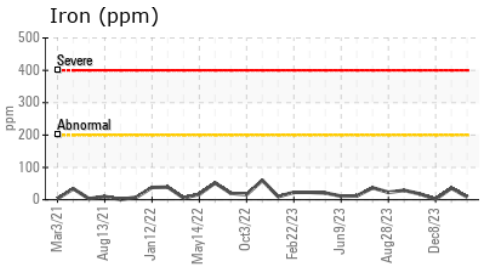


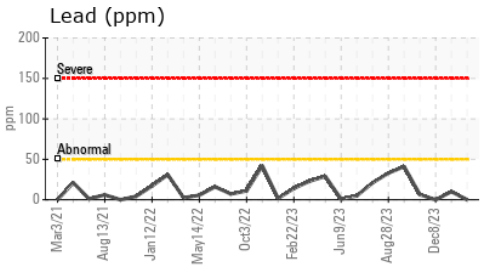


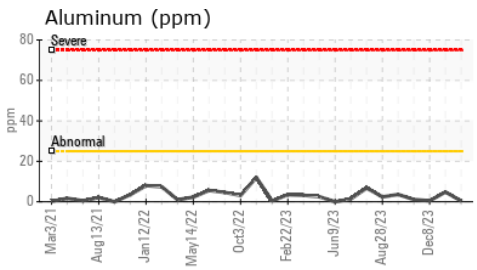
FLUID PROPERTIES		method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	68.0	**68.5**	70.8	69.0

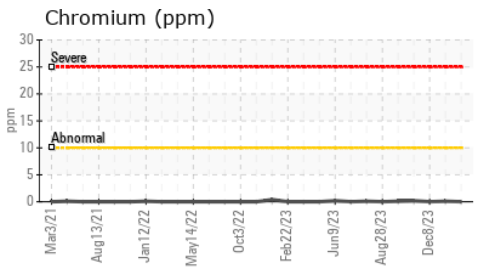
SAMPLE IMAGES	method	limit/base	current	history1	history2
Color			no image		
Bottom			no image		

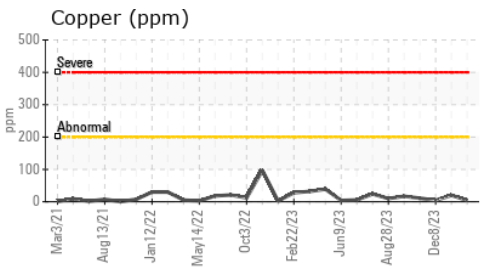
GRAPHS

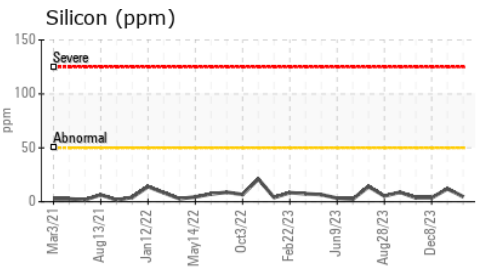


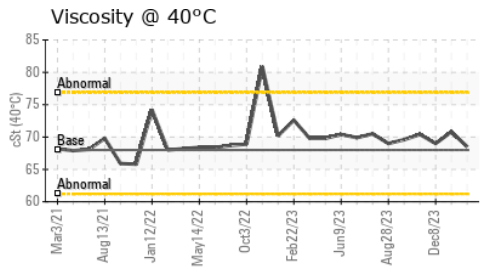


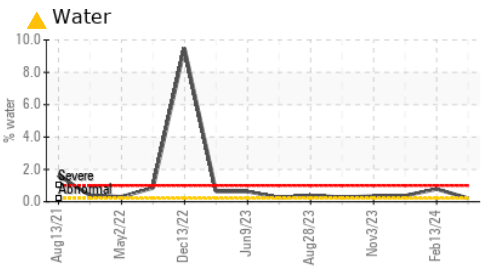












Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : WC0891247
Lab Number : 06142531
Unique Number : 10967339
Test Package : MOB 1 (Additional Tests: KF)

Received : 08 Apr 2024
Tested : 09 Apr 2024
Diagnosed : 11 Apr 2024 - 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)

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