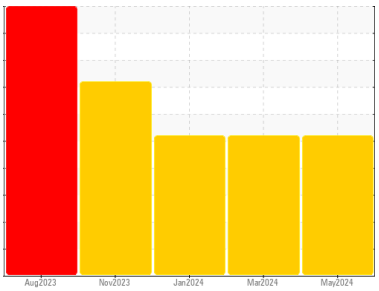
PROBLEM SUMMARY

Sample Rating Trend

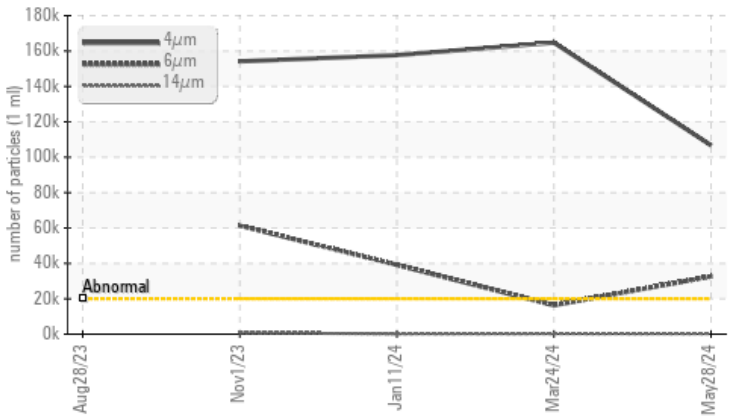


ISO

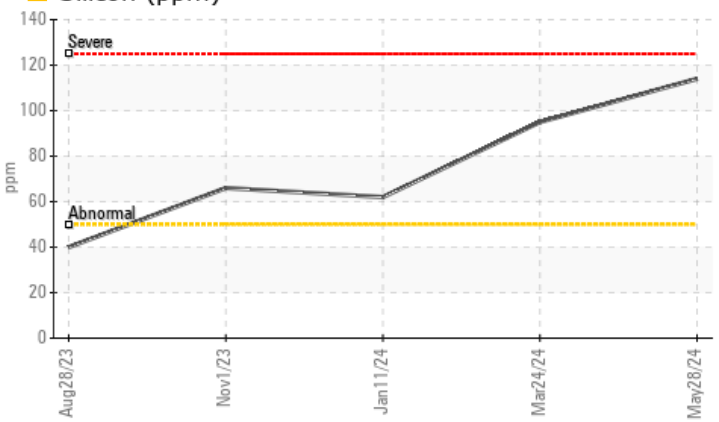
Area
TM 7
Machine Id
TM 7 BROKE CHEST AGITATOR
Component
Gearbox
Fluid
SHELL 220 (--- GAL)

COMPONENT CONDITION SUMMARY

Particle Trend



Silicon (ppm)



RECOMMENDATION

No corrective action is recommended at this time.
Resample at the next service interval to monitor.

PROBLEMATIC TEST RESULTS

Sample Status				**SEVERE**	SEVERE	SEVERE
Silicon	ppm	ASTM D5185m	>50	▲ **114**	▲ 95	▲ 62
Particles >4µm		ASTM D7647	>20000	▲ **106718**	▲ 164741	▲ 157692
Particles >6µm		ASTM D7647	>5000	▲ **32638**	▲ 16354	▲ 39164
Oil Cleanliness		ISO 4406 (c)	>21/19/16	▲ **24/22/15**	▲ 25/21/15	▲ 24/22/15

Customer Id: KIMMOBTM7
Sample No.: RP0037947
Lab Number: 06205367
Test Package: IND 2

To manage this report scan the QR code

To discuss the diagnosis or test data:
Jonathan Hester +1 919-379-4092 x4092
jhester@wearcheckusa.com

To change component or sample information:
Customer Service +1 1-800-237-1369
customerservice@wearcheck.com

RECOMMENDED ACTIONS

There are no recommended actions for this sample.

HISTORICAL DIAGNOSIS

ISO

24 Mar 2024 Diag: Jonathan Hester
No corrective action is recommended at this time. Resample at the next service interval to monitor.All component wear rates are normal. There is a high amount of silt (particulates < 14 microns in size) present in the oil. Elemental level of silicon (Si) above normal indicating ingress of seal material. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

view report

ISO

11 Jan 2024 Diag: Jonathan Hester
No corrective action is recommended at this time. Resample at the next service interval to monitor.All component wear rates are normal. There is a high amount of silt (particulates < 14 microns in size) present in the oil. Elemental level of silicon (Si) above normal indicating ingress of seal material. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

view report

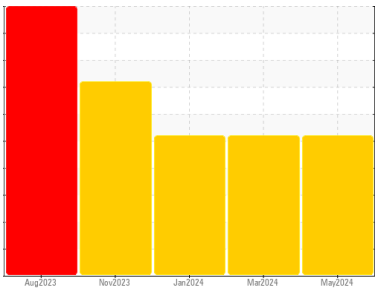
ISO

01 Nov 2023 Diag: Don Baldridge
We recommend you service the filters on this component if applicable. Resample at the next service interval to monitor.All component wear rates are normal. There is a high amount of particulates present in the oil. Elemental level of silicon (Si) above normal. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

view report

OIL ANALYSIS REPORT

Sample Rating Trend



ISO

Area
TM 7
Machine Id
TM 7 BROKE CHEST AGITATOR
Component
Gearbox
Fluid
SHELL 220 (--- GAL)

DIAGNOSIS

▲ Recommendation
No corrective action is recommended at this time. Resample at the next service interval to monitor.

Wear
All component wear rates are normal.

▲ Contamination
There is a high amount of silt (particulates < 14 microns in size) present in the oil. Elemental level of silicon (Si) above normal indicating ingress of seal material.

Fluid Condition
The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

SAMPLE INFORMATION		method	limit/base	current	history1	history2
Sample Number		Client Info		**RP0037947**	RP0030306	RP0030324
Sample Date		Client Info		**28 May 2024**	24 Mar 2024	11 Jan 2024
Machine Age	hrs	Client Info		**0**	0	0
Oil Age	hrs	Client Info		**0**	0	0
Oil Changed		Client Info		**N/A**	N/A	N/A
Sample Status				**SEVERE**	SEVERE	SEVERE

WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>200	**71**	77	70
Chromium	ppm	ASTM D5185m	>15	**<1**	0	<1
Nickel	ppm	ASTM D5185m	>15	**0**	0	0
Titanium	ppm	ASTM D5185m		**<1**	0	<1
Silver	ppm	ASTM D5185m		**0**	0	0
Aluminum	ppm	ASTM D5185m	>25	**<1**	0	<1
Lead	ppm	ASTM D5185m	>100	**0**	0	0
Copper	ppm	ASTM D5185m	>200	**3**	0	<1
Tin	ppm	ASTM D5185m	>25	**<1**	0	<1
Vanadium	ppm	ASTM D5185m		**<1**	0	0
Cadmium	ppm	ASTM D5185m		**0**	0	0

ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		**17**	16	13
Barium	ppm	ASTM D5185m		**13**	15	14
Molybdenum	ppm	ASTM D5185m		**0**	0	0
Manganese	ppm	ASTM D5185m		**1**	1	2
Magnesium	ppm	ASTM D5185m		**0**	0	0
Calcium	ppm	ASTM D5185m		**28**	22	23
Phosphorus	ppm	ASTM D5185m		**439**	404	409
Zinc	ppm	ASTM D5185m		**140**	41	38

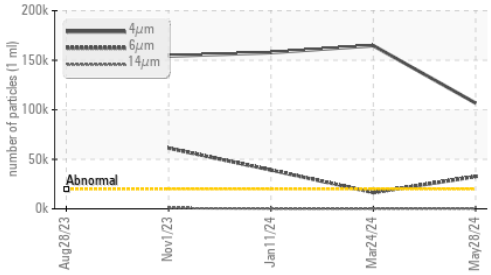
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>50	▲ **114**	▲ 95	▲ 62
Sodium	ppm	ASTM D5185m		**12**	12	12
Potassium	ppm	ASTM D5185m	>20	**<1**	<1	1
Water	%	ASTM D6304	>0.2	**0.005**	0.005	0.012
ppm Water	ppm	ASTM D6304	>2000	**57**	54	121

FLUID CLEANLINESS		method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>20000	▲ **106718**	▲ 164741	▲ 157692
Particles >6µm		ASTM D7647	>5000	▲ **32638**	▲ 16354	▲ 39164
Particles >14µm		ASTM D7647	>640	**232**	224	170
Particles >21µm		ASTM D7647	>160	**24**	44	26
Particles >38µm		ASTM D7647	>40	**0**	1	0
Particles >71µm		ASTM D7647	>10	**0**	0	0
Oil Cleanliness		ISO 4406 (c)	>21/19/16	▲ **24/22/15**	▲ 25/21/15	▲ 24/22/15

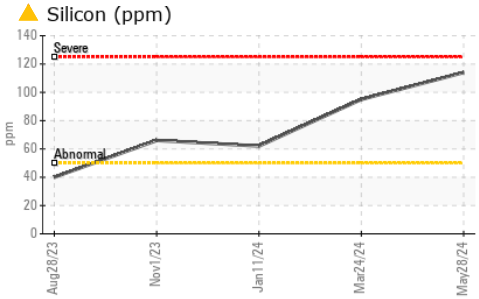
FLUID DEGRADATION		method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045		**1.11**	1.01	0.92

OIL ANALYSIS REPORT

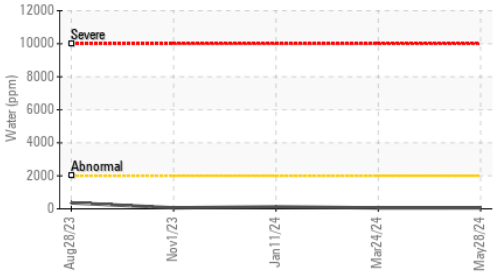
Particle Trend



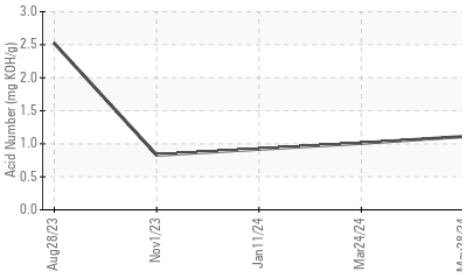
Silicon (ppm)



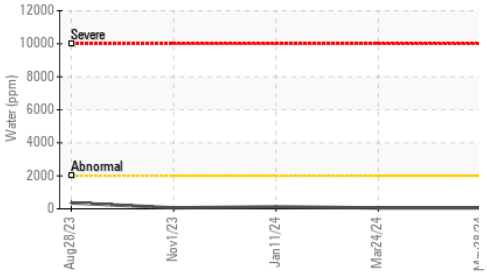
Water (KF)



Acid Number



Water (KF)



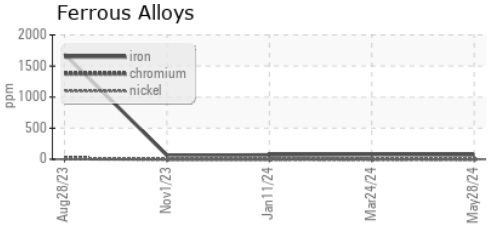
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	**NONE**	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	**NONE**	NONE	NONE
Precipitate	scalar	*Visual	NONE	**NONE**	NONE	NONE
Silt	scalar	*Visual	NONE	**NONE**	NONE	NONE
Debris	scalar	*Visual	NONE	**NONE**	NONE	NONE
Sand/Dirt	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

FLUID PROPERTIES		method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445		**214**	218	217

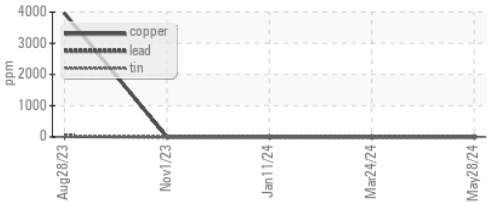
SAMPLE IMAGES	method	limit/base	current	history1	history2
Color					
Bottom					

GRAPHS

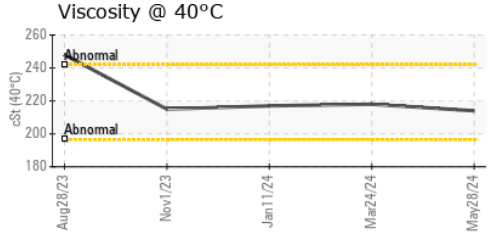
Ferrous Alloys



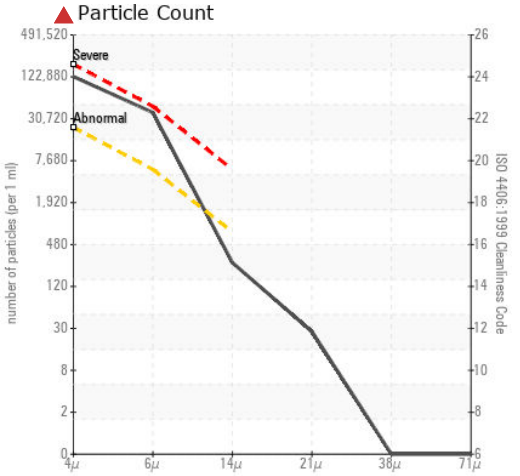
Non-ferrous Metals



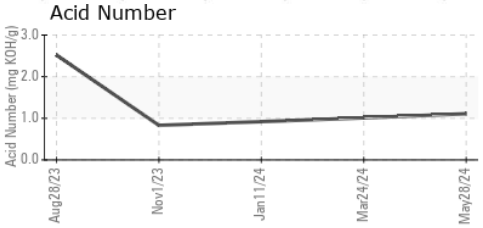
Viscosity @ 40°C



Particle Count



Acid Number



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : RP0037947 **Received** : 10 Jun 2024
Lab Number : 06205367 **Tested** : 18 Jun 2024
Unique Number : 11072828 **Diagnosed** : 18 Jun 2024 - Jonathan Hester
Test Package : IND 2 (Additional Tests: PrtCount)

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)

Kimberly-Clark - Mobile - TM 7
200 BAYBRIDGE RD
MOBILE, AL
US 36610
Contact: BRAD SNOW
brad.snow@kcc.com
T:
F: (251)452-6335

Report Id: KIMMOBTM7 [WUSCAR] 06205367 (Generated: 06/22/2024 15:59:29) Rev: 1
Contact/Location: BRAD SNOW - KIMMOBTM7