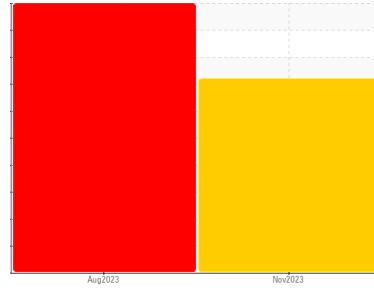


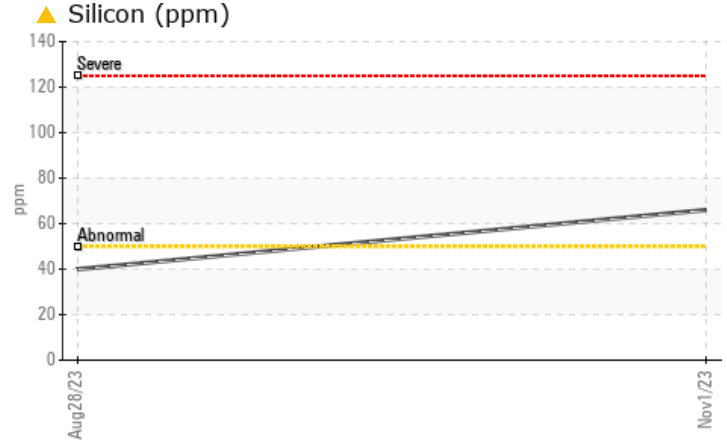
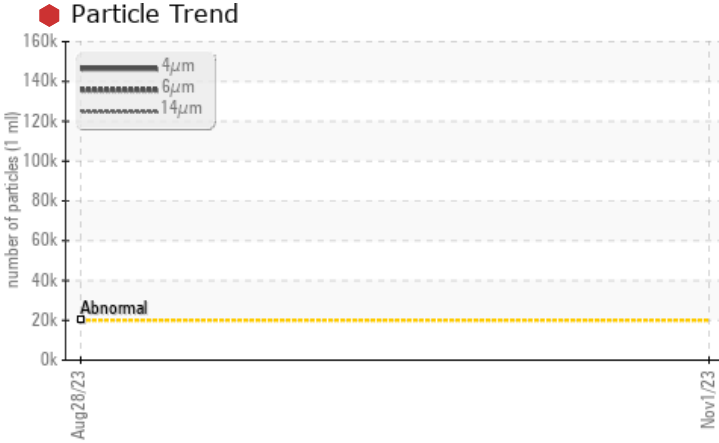
PROBLEM SUMMARY

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

Sample Rating Trend



COMPONENT CONDITION SUMMARY



RECOMMENDATION

We recommend you service the filters on this component if applicable. Resample at the next service interval to monitor.

PROBLEMATIC TEST RESULTS

Sample Status				SEVERE	SEVERE	---
Silicon	ppm	ASTM D5185m	>50	▲ 66	40	---
Particles >4µm		ASTM D7647	>20000	● 154154	---	---
Particles >6µm		ASTM D7647	>5000	● 61286	---	---
Particles >14µm		ASTM D7647	>640	● 712	---	---
Oil Cleanliness		ISO 4406 (c)	>21/19/16	● 24/23/17	---	---

Customer Id: KIMMOBTM7
Sample No.: RP0034389
Lab Number: 05997376
Test Package: IND 2



To manage this report scan the QR code

To discuss the diagnosis or test data:
Don Baldrige +1
don.b505@comcast.net

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

RECOMMENDED ACTIONS

Action	Status	Date	Done By	Description
Change Filter	---	---	?	We recommend you service the filters on this component if applicable.

HISTORICAL DIAGNOSIS

28 Aug 2023 Diag: Angela Borella

WEAR



We recommend that you drain the oil from the component if this has not already been done. . We advise that you inspect for the source(s) of wear. Inspect/change air breather if applicable. We recommend an early resample to monitor this condition. Please specify the brand, type, and viscosity of the oil on your next sample. Gear wear is indicated. Moderate concentration of visible metal present. There is a trace of moisture present in the oil. The oil viscosity is higher than normal. The AN level is above the recommended limit. Confirm oil type. The oil is no longer serviceable as a result of the abnormal and/or severe wear.

view report

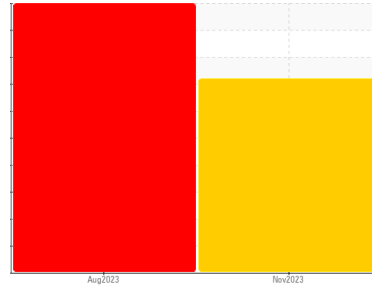




OIL ANALYSIS REPORT

Sample Rating Trend

ISO



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

DIAGNOSIS

Recommendation

We recommend you service the filters on this component if applicable. Resample at the next service interval to monitor.

Wear

All component wear rates are normal.

Contamination

There is a high amount of particulates present in the oil. Elemental level of silicon (Si) above normal.

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		RP0034389	RP0034359	---
Sample Date	Client Info		01 Nov 2023	28 Aug 2023	---
Machine Age	hrs	Client Info	0	0	---
Oil Age	hrs	Client Info	0	0	---
Oil Changed	Client Info		N/A	N/A	---
Sample Status			SEVERE	SEVERE	---

WEAR METALS

	method	limit/base	current	history1	history2
PQ	ASTM D8184		44	---	---
Iron	ppm	ASTM D5185m >200	62	1693	---
Chromium	ppm	ASTM D5185m >15	<1	11	---
Nickel	ppm	ASTM D5185m >15	0	10	---
Titanium	ppm	ASTM D5185m	<1	55	---
Silver	ppm	ASTM D5185m	0	<1	---
Aluminum	ppm	ASTM D5185m >25	<1	63	---
Lead	ppm	ASTM D5185m >100	0	19	---
Copper	ppm	ASTM D5185m >200	2	3961	---
Tin	ppm	ASTM D5185m >25	<1	14	---
Vanadium	ppm	ASTM D5185m	0	<1	---
Cadmium	ppm	ASTM D5185m	<1	<1	---

ADDITIVES

	method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m 50	9	24	---
Barium	ppm	ASTM D5185m 15	15	29	---
Molybdenum	ppm	ASTM D5185m 15	0	0	---
Manganese	ppm	ASTM D5185m	<1	86	---
Magnesium	ppm	ASTM D5185m 50	<1	16	---
Calcium	ppm	ASTM D5185m 50	24	19	---
Phosphorus	ppm	ASTM D5185m 350	345	416	---
Zinc	ppm	ASTM D5185m 100	37	2898	---

CONTAMINANTS

	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m >50	66	40	---
Sodium	ppm	ASTM D5185m	5	2	---
Potassium	ppm	ASTM D5185m >20	2	1	---
Water	%	ASTM D6304 >0.2	0.005	0.036	---
ppm Water	ppm	ASTM D6304 >2000	59.4	361.1	---

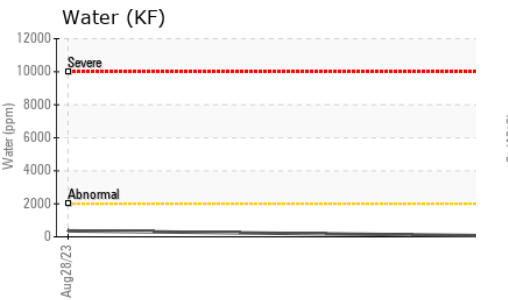
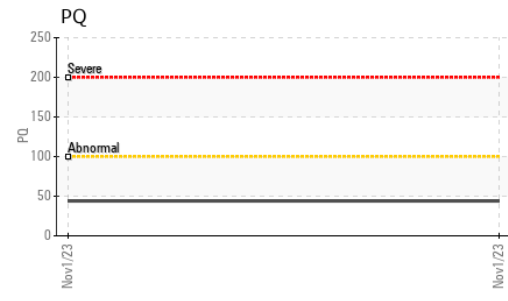
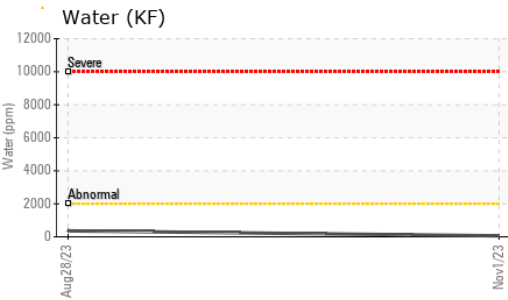
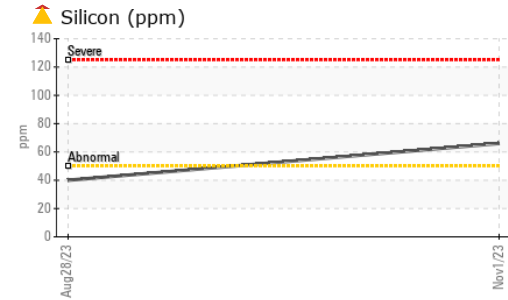
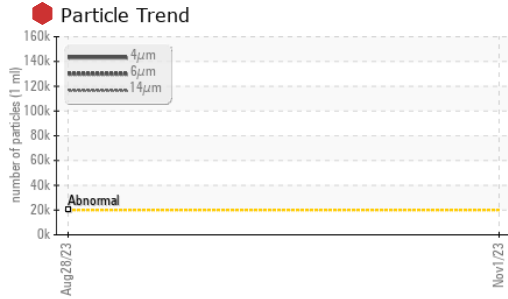
FLUID CLEANLINESS

	method	limit/base	current	history1	history2
Particles >4µm	ASTM D7647	>20000	154154	---	---
Particles >6µm	ASTM D7647	>5000	61286	---	---
Particles >14µm	ASTM D7647	>640	712	---	---
Particles >21µm	ASTM D7647	>160	152	---	---
Particles >38µm	ASTM D7647	>40	4	---	---
Particles >71µm	ASTM D7647	>10	0	---	---
Oil Cleanliness	ISO 4406 (c)	>21/19/16	24/23/17	---	---

FLUID DEGRADATION

	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045 0.85	0.83	2.52	---

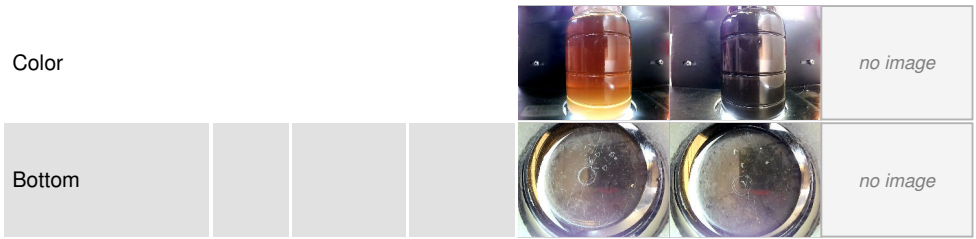
OIL ANALYSIS REPORT



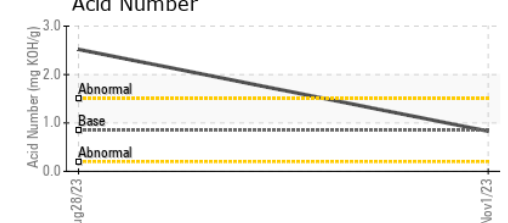
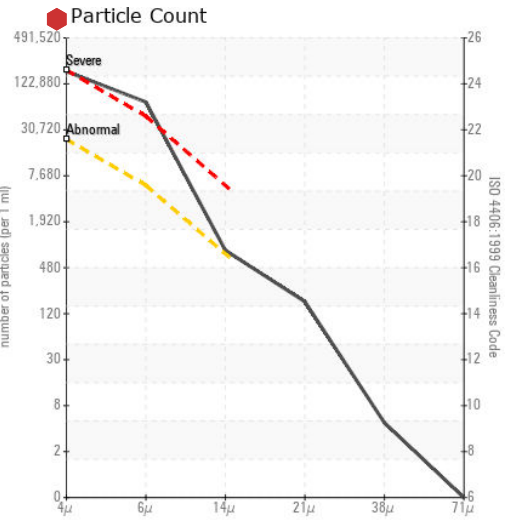
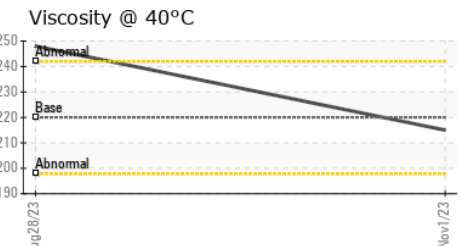
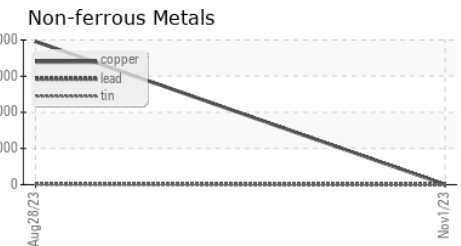
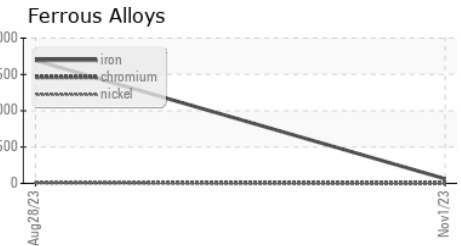
VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	---
Yellow Metal	scalar	*Visual	NONE	▲ MODER	---
Precipitate	scalar	*Visual	NONE	NONE	---
Silt	scalar	*Visual	NONE	NONE	---
Debris	scalar	*Visual	NONE	▲ LIGHT	---
Sand/Dirt	scalar	*Visual	NONE	NONE	---
Appearance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

FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	220	215	▲ 248

SAMPLE IMAGES	method	limit/base	current	history1	history2
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GRAPHS



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : RP0034389 **Received** : 02 Nov 2023
Lab Number : 05997376 **Diagnosed** : 07 Nov 2023
Unique Number : 10725736 **Diagnostician** : Don Baldrige
Test Package : IND 2 (Additional Tests: PQ, PrtCount)

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 MOBILE, AL
 US 36610
 Contact: BRAD SNOW
 brad.snow@kcc.com
 T:
 F: (251)452-6335

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)