

# PROBLEM SUMMARY

Sample Rating Trend

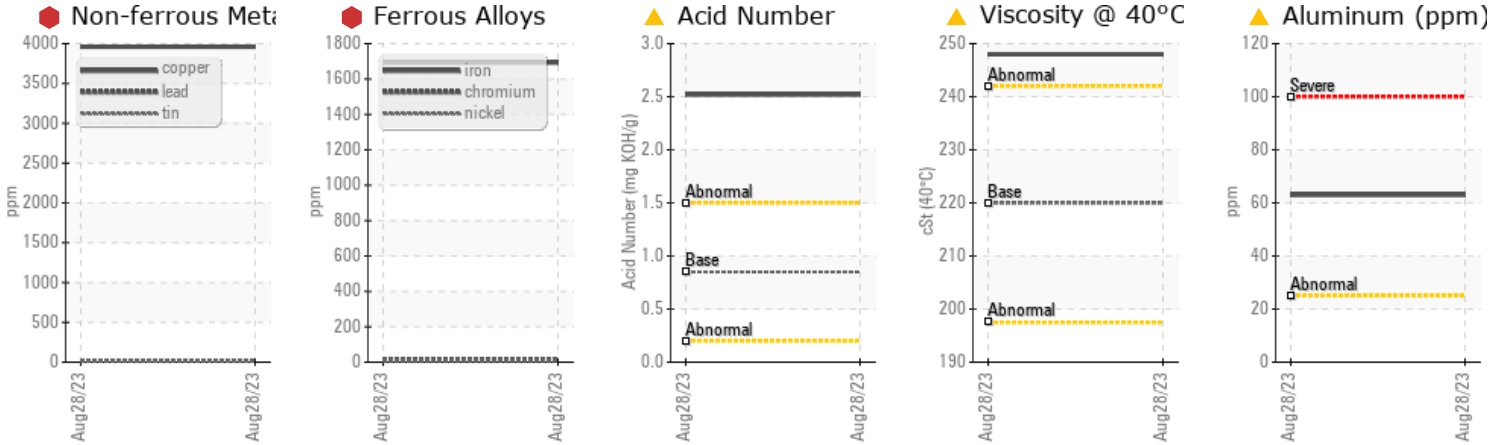
WEAR

Area  
**TM 7**  
Machine Id  
**TM 7 BROKE CHEST AGITATOR**

Component  
**Gearbox**  
Fluid  
**GEAR OIL ISO 220 (--- GAL)**



## COMPONENT CONDITION SUMMARY



## RECOMMENDATION

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.

## PROBLEMATIC TEST RESULTS

Sample Status	SEVERE	---	---			
Iron	ppm	ASTM D5185m	>200	1693	---	---
Titanium	ppm	ASTM D5185m		55	---	---
Aluminum	ppm	ASTM D5185m	>25	63	---	---
Copper	ppm	ASTM D5185m	>200	3961	---	---
Acid Number (AN)	mg KOH/g	ASTM D8045	0.85	2.52	---	---
Yellow Metal	scalar	*Visual	NONE	MODER	---	---
Emulsified Water	scalar	*Visual	>0.2	0.2%	---	---
Visc @ 40°C	cSt	ASTM D445	220	248	---	---

Customer Id: KIMMOBTM7  
Sample No.: RP0034359  
Lab Number: 05937915  
Test Package: IND 2



To manage this report scan the QR code

To discuss the diagnosis or test data:  
Angela Borella +1 800-237-1369  
[angela.borella@wearcheckusa.com](mailto:angela.borella@wearcheckusa.com)

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

## RECOMMENDED ACTIONS

Action	Status	Date	Done By	Description
Inspect Wear Source	---	---	?	We advise that you inspect for the source(s) of wear.
Change Fluid	---	---	?	We recommend that you drain the oil from the component if this has not already been done.
Resample	---	---	?	We recommend an early resample to monitor this condition.
Information Required	---	---	?	Please specify the brand, type, and viscosity of the oil on your next sample.
Check Breathers	---	---	?	The air breather requires service. If unrated, we recommend that you replace with a suitable micron rated and/or desiccant air breather. If rated, we recommend that you service/replace the breather.

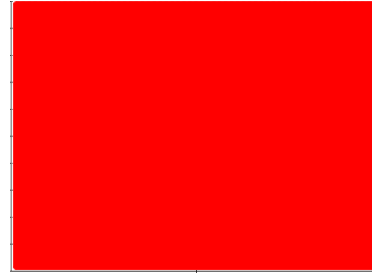
## HISTORICAL DIAGNOSIS

# OIL ANALYSIS REPORT

Sample Rating Trend

WEAR

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



## DIAGNOSIS

### Recommendation

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.

### Wear

Gear wear is indicated. Moderate concentration of visible metal present.

### Contamination

There is a trace of moisture present in the oil.

### Fluid Condition

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.

## SAMPLE INFORMATION

	method	limit/base	current	history1	history2
Sample Number	Client Info		<b>RP0034359</b>	---	---
Sample Date	Client Info		<b>28 Aug 2023</b>	---	---
Machine Age	hrs	Client Info	<b>0</b>	---	---
Oil Age	hrs	Client Info	<b>0</b>	---	---
Oil Changed	Client Info		<b>N/A</b>	---	---
Sample Status			<b>SEVERE</b>	---	---

## WEAR METALS

	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m >200	<b>1693</b>	---	---
Chromium	ppm	ASTM D5185m >15	<b>11</b>	---	---
Nickel	ppm	ASTM D5185m >15	<b>10</b>	---	---
Titanium	ppm	ASTM D5185m	<b>55</b>	---	---
Silver	ppm	ASTM D5185m	<b>&lt;1</b>	---	---
Aluminum	ppm	ASTM D5185m >25	<b>63</b>	---	---
Lead	ppm	ASTM D5185m >100	<b>19</b>	---	---
Copper	ppm	ASTM D5185m >200	<b>3961</b>	---	---
Tin	ppm	ASTM D5185m >25	<b>14</b>	---	---
Vanadium	ppm	ASTM D5185m	<b>&lt;1</b>	---	---
Cadmium	ppm	ASTM D5185m	<b>&lt;1</b>	---	---

## ADDITIVES

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

## CONTAMINANTS

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

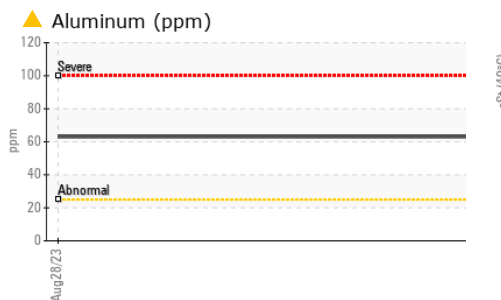
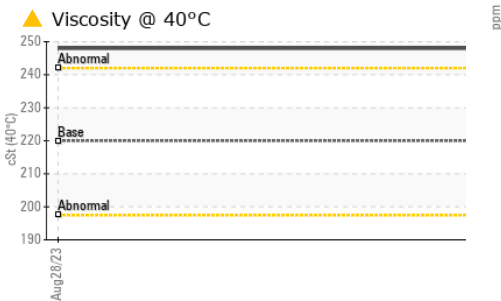
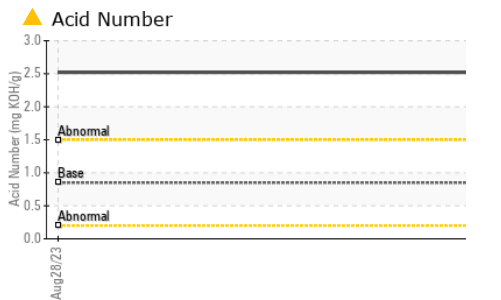
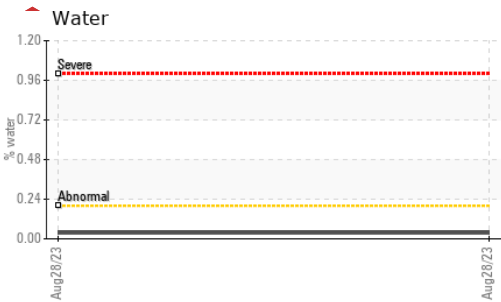
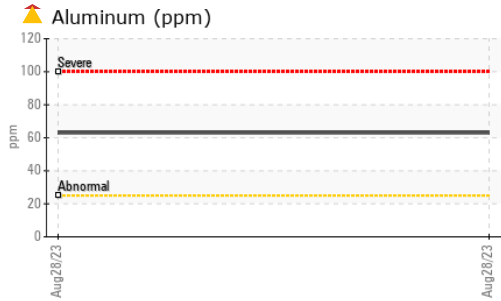
## FLUID DEGRADATION

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

## VISUAL

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

# OIL ANALYSIS REPORT

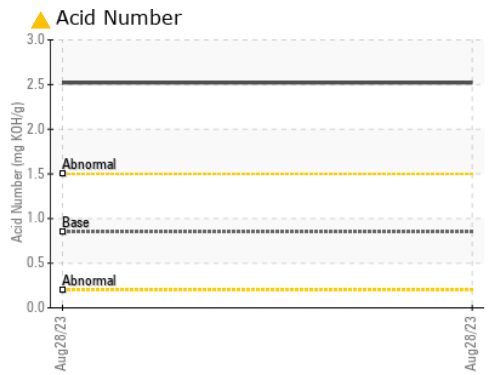
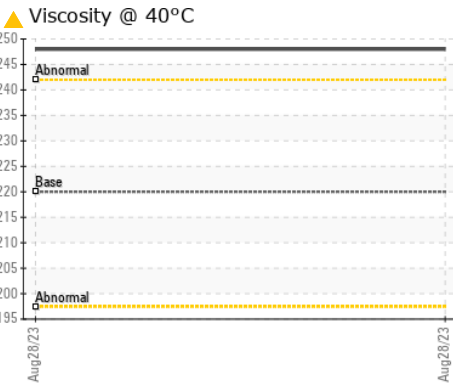
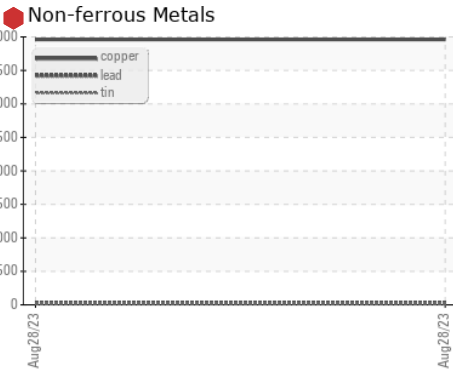
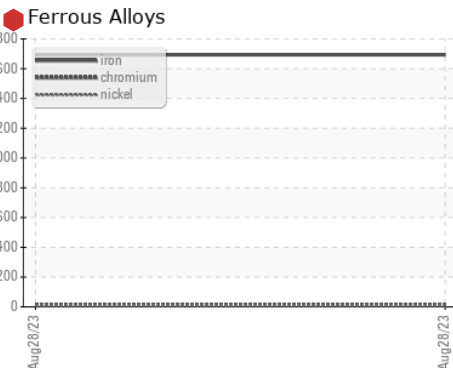


FLUID PROPERTIES		method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	220	▲ 248	---	---

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



## GRAPHS



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : RP0034359 **Received** : 29 Aug 2023  
**Lab Number** : 05937915 **Diagnosed** : 30 Aug 2023  
**Unique Number** : 10628527 **Diagnostician** : Angela Borella  
**Test Package** : IND 2

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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)