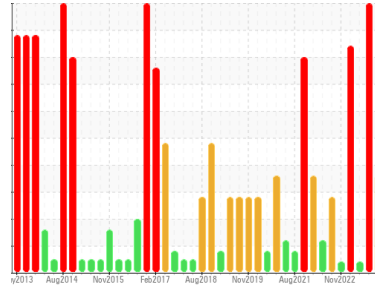


PROBLEM SUMMARY

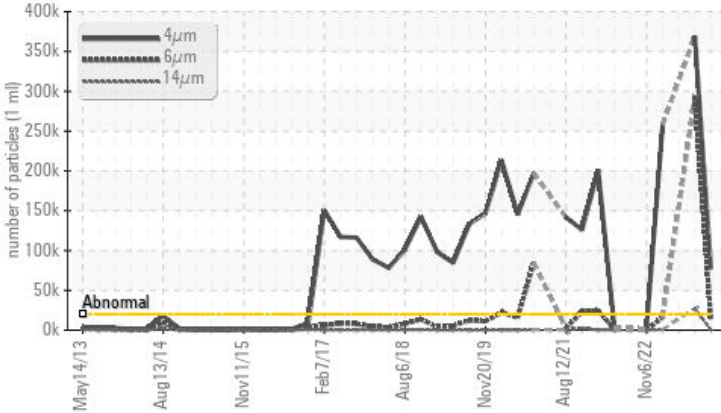
Sample Rating Trend



Area
TM 6
 Machine Id
1ST PRESSURE ROLL GRBX
 Component
Gearbox
 Fluid
GEAR OIL ISO 220 (36 GAL)

COMPONENT CONDITION SUMMARY

Particle Trend



RECOMMENDATION

We recommend you service the filters on this component if applicable. We recommend an early resample to monitor this condition.

PROBLEMATIC TEST RESULTS

Sample Status			SEVERE	SEVERE	ABNORMAL
Particles >4µm	ASTM D7647	>20000	77303	368465	---
Particles >6µm	ASTM D7647	>5000	13441	292100	---
Oil Cleanliness	ISO 4406 (c)	>21/19/16	23/21/16	26/25/22	---

Customer Id: KIMMOBTM6
 Sample No.: RP0030568
 Lab Number: 06010759
 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.
Resample	---	---	?	We recommend an early resample to monitor this condition.

HISTORICAL DIAGNOSIS

09 Aug 2023 Diag: Doug Bogart

WEAR



We recommend you service the filters on this component if applicable. We advise that you inspect for the source(s) of wear. We recommend an early resample to monitor this condition. Gear wear is indicated. There is a high amount of particulates present in the oil. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

view report



24 May 2023 Diag: Don Baldrige

VIS DEBRIS



We recommend you service the filters on this component if applicable. Resample at the next service interval to monitor. We were unable to perform a particle count due to a high concentration of particles present in this sample. All component wear rates are normal. Moderate concentration of visible dirt/debris present in the oil. The AN level is acceptable for this fluid. The condition of the oil is acceptable for the time in service.

view report



21 Feb 2023 Diag: Don Baldrige

ISO



We recommend you service the filters on this component if applicable. Resample at the next service interval to monitor. Gear wear is indicated. All other component wear rates are normal. There is a high amount of particulates present in the oil. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

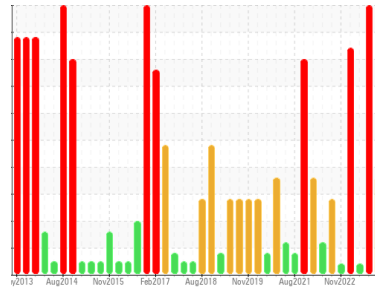
view report





OIL ANALYSIS REPORT

Sample Rating Trend



ISO



Area
TM 6
 Machine Id
1ST PRESSURE ROLL GRBX
 Component
Gearbox
 Fluid
GEAR OIL ISO 220 (36 GAL)

DIAGNOSIS

Recommendation

We recommend you service the filters on this component if applicable. We recommend an early resample to monitor this condition.

Wear

All component wear rates are normal.

Contamination

There is a high amount of silt (particulates < 14 microns in size) present in the oil.

Fluid Condition

The AN level is acceptable for this fluid. The condition of the oil is acceptable for the time in service.

SAMPLE INFORMATION

	method	limit/base	current	history1	history2
Sample Number	Client Info		RP0030568	RP0034433	RP0023574
Sample Date	Client Info		17 Nov 2023	09 Aug 2023	24 May 2023
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	ABNORMAL

WEAR METALS

	method	limit/base	current	history1	history2
PQ	ASTM D8184		19	73	25
Iron	ppm	ASTM D5185m >200	6	654	155
Chromium	ppm	ASTM D5185m >15	0	2	<1
Nickel	ppm	ASTM D5185m >15	0	4	<1
Titanium	ppm	ASTM D5185m	0	<1	0
Silver	ppm	ASTM D5185m	0	0	0
Aluminum	ppm	ASTM D5185m >25	0	5	3
Lead	ppm	ASTM D5185m >100	0	<1	0
Copper	ppm	ASTM D5185m >200	<1	8	<1
Tin	ppm	ASTM D5185m >25	0	0	0
Vanadium	ppm	ASTM D5185m	0	<1	0
Cadmium	ppm	ASTM D5185m	0	0	0

ADDITIVES

	method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m 50	13	22	22
Barium	ppm	ASTM D5185m 15	<1	0	0
Molybdenum	ppm	ASTM D5185m 15	0	<1	<1
Manganese	ppm	ASTM D5185m	0	4	1
Magnesium	ppm	ASTM D5185m 50	0	1	<1
Calcium	ppm	ASTM D5185m 50	13	40	5
Phosphorus	ppm	ASTM D5185m 350	388	532	333
Zinc	ppm	ASTM D5185m 100	23	446	161

CONTAMINANTS

	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m >50	2	13	3
Sodium	ppm	ASTM D5185m	3	10	4
Potassium	ppm	ASTM D5185m >20	0	1	<1
Water	%	ASTM D6304 >0.2	0.022	0.081	0.015
ppm Water	ppm	ASTM D6304 >2000	221.6	810	155.5

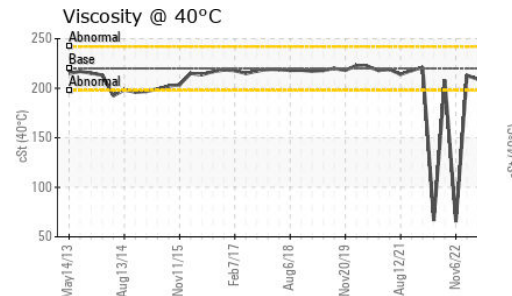
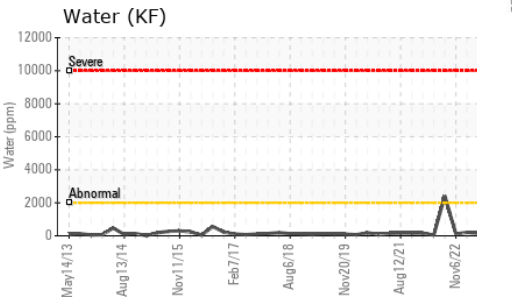
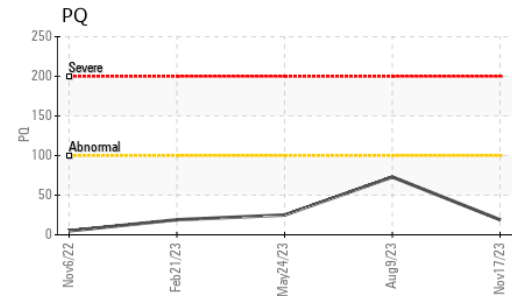
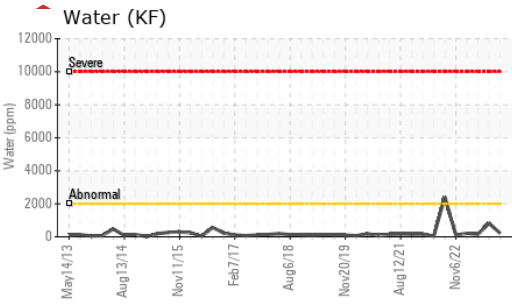
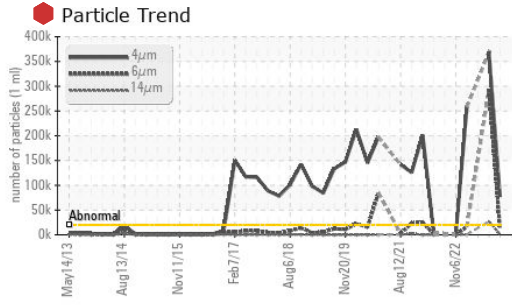
FLUID CLEANLINESS

	method	limit/base	current	history1	history2
Particles >4µm	ASTM D7647	>20000	77303	368465	---
Particles >6µm	ASTM D7647	>5000	13441	292100	---
Particles >14µm	ASTM D7647	>640	523	26820	---
Particles >21µm	ASTM D7647	>160	129	888	---
Particles >38µm	ASTM D7647	>40	4	1	---
Particles >71µm	ASTM D7647	>10	0	0	---
Oil Cleanliness	ISO 4406 (c)	>21/19/16	23/21/16	26/25/22	---

FLUID DEGRADATION

	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045 0.85	0.93	1.06	1.46

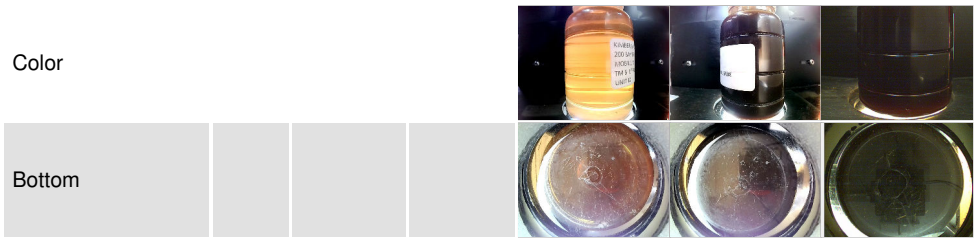
OIL ANALYSIS REPORT



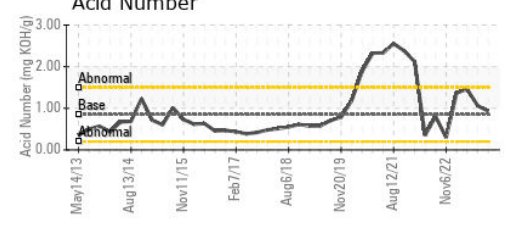
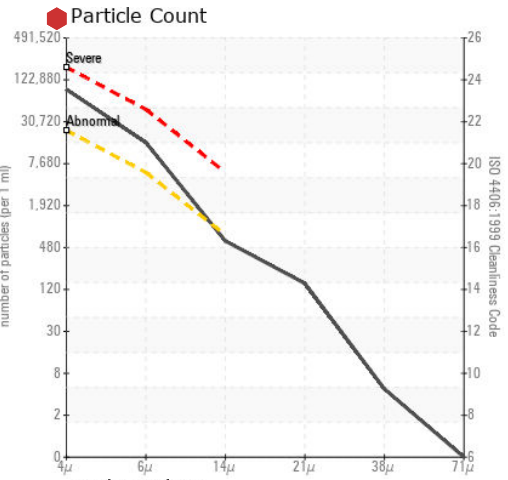
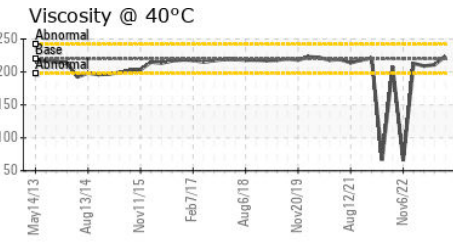
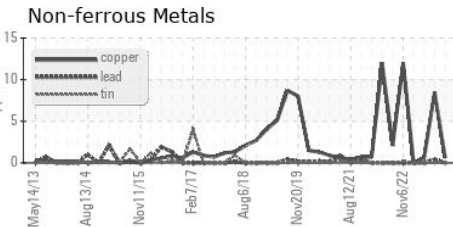
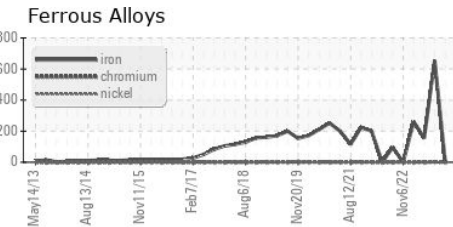
VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	▲ MODER
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE
Appearance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

FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	220	224	211

SAMPLE IMAGES	method	limit/base	current	history1	history2
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GRAPHS



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : RP0030568 **Received** : 17 Nov 2023
Lab Number : 06010759 **Diagnosed** : 20 Nov 2023
Unique Number : 10749903 **Diagnostician** : Don Baldrige

Kimberly-Clark - Mobile - TM 6
 200 BAYBRIDGE RD
 MOBILE, AL
 US 36610
 Contact: MORGAN RUSSELL
 Morgan.Russell@kcc.com
 T:
 F: (251)452-6335

Test Package : IND 2 (Additional Tests: PQ, 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)