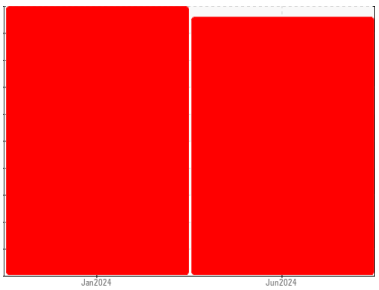
PROBLEM SUMMARY

Sample Rating Trend

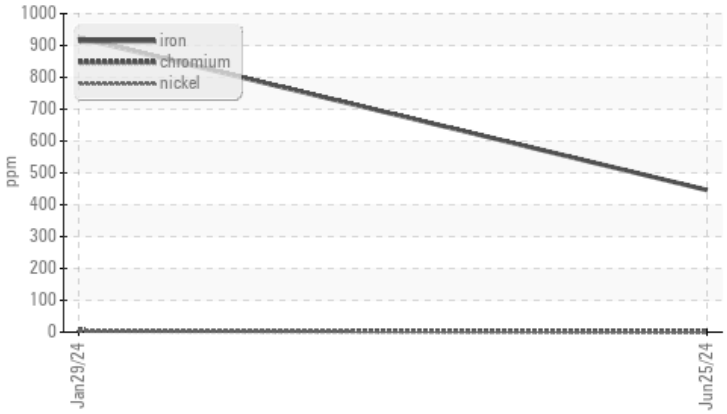


WEAR

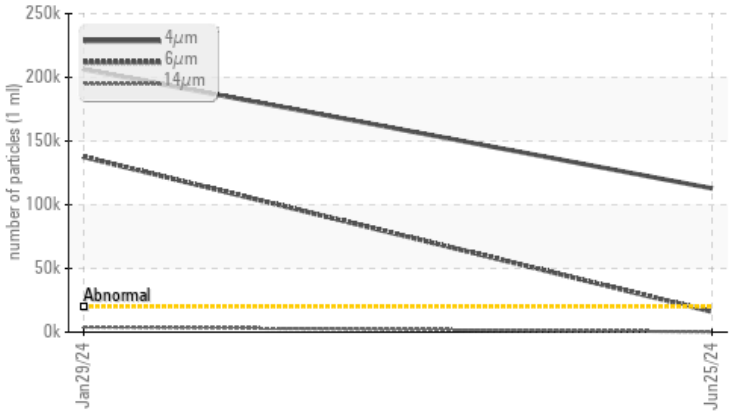
Area
TM 5
Machine Id
TM 5 CAL LEAD IN ROLL
Component
Gearbox
Fluid
GEAR OIL ISO 220 (--- GAL)

COMPONENT CONDITION SUMMARY

▲ Ferrous Alloys



▲ Particle Trend



RECOMMENDATION

We advise that you inspect for the source(s) of wear. We recommend an early resample to monitor this condition.

PROBLEMATIC TEST RESULTS

Sample Status				**SEVERE**	SEVERE	---
Iron	ppm	ASTM D5185m	>200	▲ **446**	▲ 924	---
Particles >4µm		ASTM D7647	>20000	▲ **112837**	▲ 206242	---
Particles >6µm		ASTM D7647	>5000	▲ **16041**	▲ 137603	---
Oil Cleanliness		ISO 4406 (c)	>21/19/16	▲ **24/21/15**	▲ 25/24/19	---

Customer Id: KIMMOBTM5
Sample No.: RP0038087
Lab Number: 06221175
Test Package: IND 2

To manage this report scan the QR code

To discuss the diagnosis or test data:
Don Baldridge +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
Inspect Wear Source	---	---	?	We advise that you inspect for the source(s) of wear.
Resample	---	---	?	We recommend an early resample to monitor this condition.

HISTORICAL DIAGNOSIS

WEAR

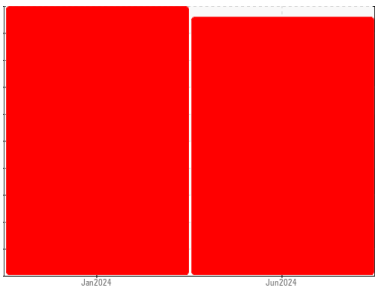
29 Jan 2024 Diag: Jonathan Hester

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.

view report

OIL ANALYSIS REPORT

Sample Rating Trend



WEAR

Area
TM 5
Machine Id
TM 5 CAL LEAD IN ROLL
Component
Gearbox
Fluid
GEAR OIL ISO 220 (--- GAL)

DIAGNOSIS

▲ Recommendation
We advise that you inspect for the source(s) of wear. We recommend an early resample to monitor this condition.

▲ Wear
Gear wear is indicated.

▲ 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.

SAMPLE INFORMATION		method	limit/base	current	history1	history2
Sample Number		Client Info		**RP0038087**	RP0038083	---
Sample Date		Client Info		**25 Jun 2024**	29 Jan 2024	---
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		**34**	65	---
Iron	ppm	ASTM D5185m	>200	▲ **446**	▲ 924	---
Chromium	ppm	ASTM D5185m	>15	**2**	5	---
Nickel	ppm	ASTM D5185m	>15	**<1**	4	---
Titanium	ppm	ASTM D5185m		**0**	<1	---
Silver	ppm	ASTM D5185m		**0**	0	---
Aluminum	ppm	ASTM D5185m	>25	**<1**	2	---
Lead	ppm	ASTM D5185m	>100	**0**	<1	---
Copper	ppm	ASTM D5185m	>200	**1**	3	---
Tin	ppm	ASTM D5185m	>25	**0**	0	---
Vanadium	ppm	ASTM D5185m		**0**	<1	---
Cadmium	ppm	ASTM D5185m		**0**	0	---

ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	50	**14**	8	---
Barium	ppm	ASTM D5185m	15	**0**	0	---
Molybdenum	ppm	ASTM D5185m	15	**0**	<1	---
Manganese	ppm	ASTM D5185m		**6**	10	---
Magnesium	ppm	ASTM D5185m	50	**1**	2	---
Calcium	ppm	ASTM D5185m	50	**<1**	6	---
Phosphorus	ppm	ASTM D5185m	350	**412**	271	---
Zinc	ppm	ASTM D5185m	100	**11**	7	---

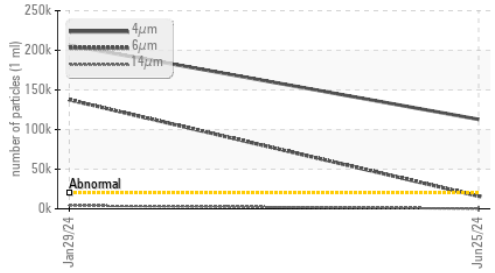
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>50	**6**	6	---
Sodium	ppm	ASTM D5185m		**<1**	0	---
Potassium	ppm	ASTM D5185m	>20	**2**	2	---
Water	%	ASTM D6304	>0.2	**0.013**	0.013	---
ppm Water	ppm	ASTM D6304	>2000	**135**	137	---

FLUID CLEANLINESS		method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>20000	▲ **112837**	▲ 206242	---
Particles >6µm		ASTM D7647	>5000	▲ **16041**	▲ 137603	---
Particles >14µm		ASTM D7647	>640	**218**	▲ 4047	---
Particles >21µm		ASTM D7647	>160	**26**	▲ 350	---
Particles >38µm		ASTM D7647	>40	**1**	7	---
Particles >71µm		ASTM D7647	>10	**0**	1	---
Oil Cleanliness		ISO 4406 (c)	>21/19/16	▲ **24/21/15**	▲ 25/24/19	---

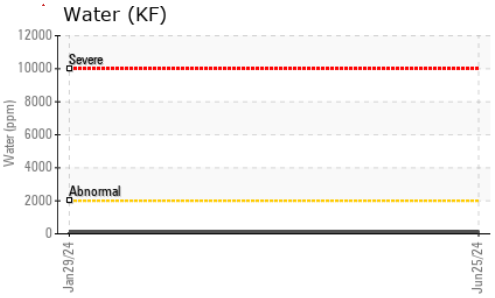
FLUID DEGRADATION		method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045	0.85	**0.98**	0.85	---

OIL ANALYSIS REPORT

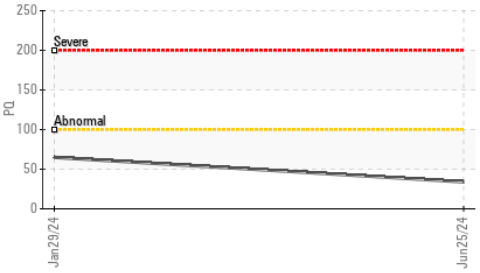
Particle Trend



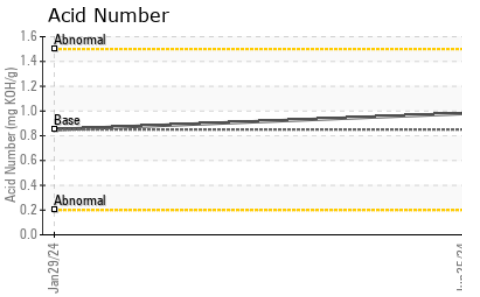
Water (KF)



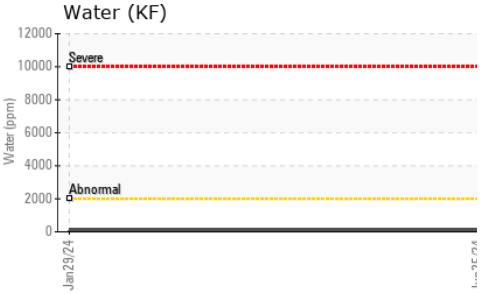
PQ



Acid Number



Water (KF)



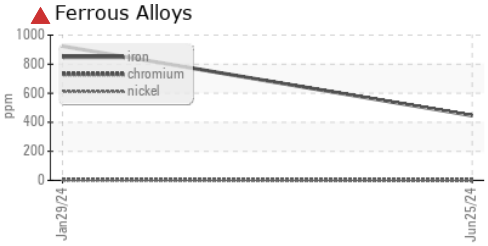
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	**NONE**	NONE	---
Yellow Metal	scalar	*Visual	NONE	**NONE**	NONE	---
Precipitate	scalar	*Visual	NONE	**NONE**	NONE	---
Silt	scalar	*Visual	NONE	**NONE**	NONE	---
Debris	scalar	*Visual	NONE	**NONE**	LIGHT	---
Sand/Dirt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

FLUID PROPERTIES		method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	220	**235**	258	---

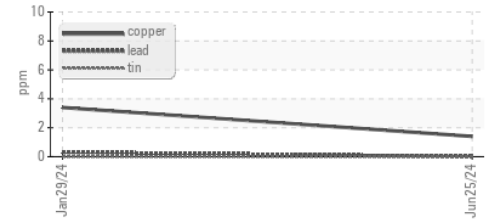
SAMPLE IMAGES	method	limit/base	current	history1	history2
Color					*no image*
Bottom					*no image*

GRAPHS

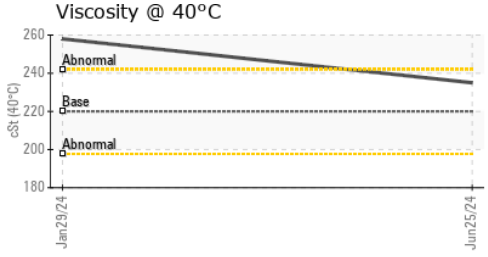
Ferrous Alloys



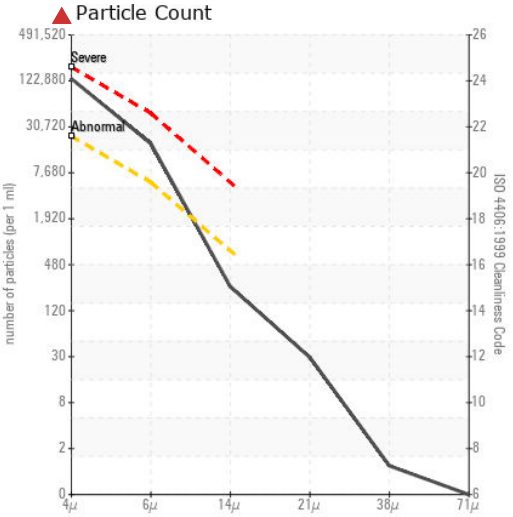
Non-ferrous Metals



Viscosity @ 40°C



Particle Count



Acid Number

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : RP0038087
Lab Number : 06221175
Unique Number : 11099372
Test Package : IND 2 (Additional Tests: PQ, PrtCount)

Received : 26 Jun 2024
Tested : 27 Jun 2024
Diagnosed : 27 Jun 2024 - Don Baldridge

Certificate L2367

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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