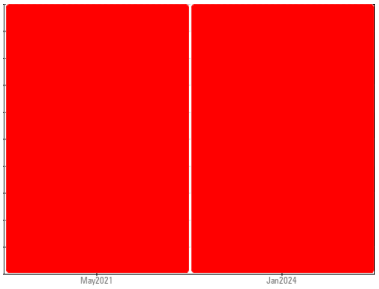
PROBLEM SUMMARY

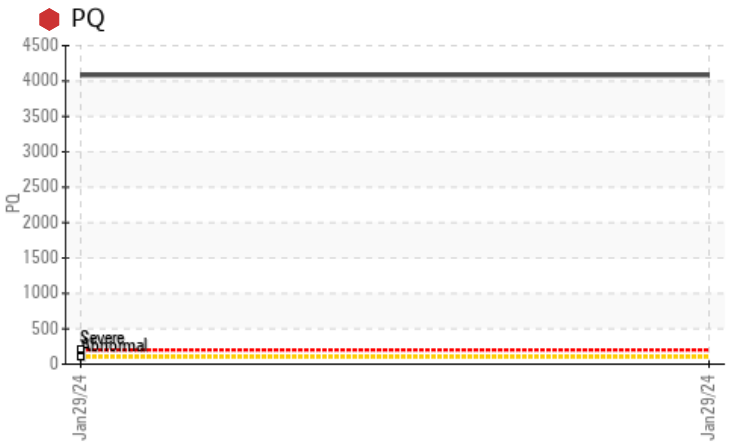
Sample Rating Trend

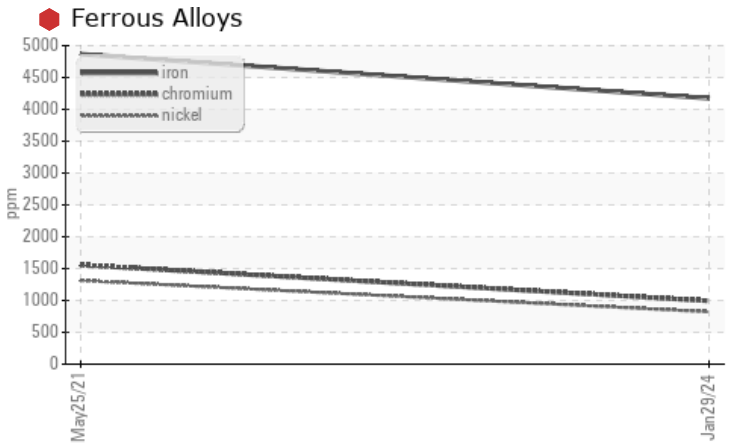


WEAR

Area
TM 5
Machine Id
TM 5 SAVEALL
Component
Gearbox
Fluid
{not provided} (--- GAL)

COMPONENT CONDITION SUMMARY





RECOMMENDATION

We recommend that you drain the oil and perform a filter service on this component if not already done. We advise that you inspect for the source(s) of wear. We recommend an early resample to monitor this condition. We were unable to perform a particle count due to metal particles present in this sample.

PROBLEMATIC TEST RESULTS

Sample Status				**SEVERE**	SEVERE	---
PQ		ASTM D8184		**4084**	---	---
Iron	ppm	ASTM D5185m	>200	**4173**	4867	---
Chromium	ppm	ASTM D5185m	>15	**993**	1556	---
Nickel	ppm	ASTM D5185m	>15	**821**	1313	---
White Metal	scalar	*Visual	NONE	**MODER**	NONE	---

Customer Id: KIMMOBTM5
Sample No.: RP0038082
Lab Number: 06074716
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

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 and perform a filter service on this component if not already done.
Change Filter	---	---	?	We recommend that you drain the oil and perform a filter service on this component if not already done.
Resample	---	---	?	We recommend an early resample to monitor this condition.
Alert	---	---	?	We were unable to perform a particle count due to metal particles present in this sample.

HISTORICAL DIAGNOSIS

WEAR

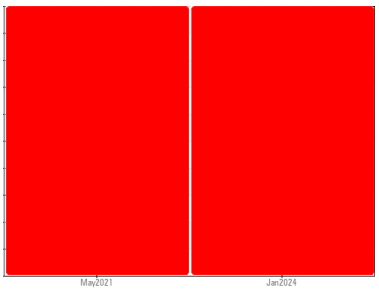
25 May 2021 Diag: Jonathan Hester

We recommend that you drain the oil and perform a filter service on this component if not already done. We advise that you inspect for the source(s) of wear. We recommend an early resample to monitor this condition. We were unable to perform a particle count due to metal particles present in this sample.Moderate concentration of visible metal present. Bearing and/or gear wear is indicated. Appearance is milky. Elemental level of silicon (Si) above normal indicating ingress of seal material. The oil is no longer serviceable as a result of the abnormal and/or severe wear.

view report

OIL ANALYSIS REPORT

Sample Rating Trend



WEAR

Area
TM 5
Machine Id
TM 5 SAVEALL
Component
Gearbox
Fluid
{not provided} (--- GAL)

DIAGNOSIS

Recommendation

We recommend that you drain the oil and perform a filter service on this component if not already done. We advise that you inspect for the source(s) of wear. We recommend an early resample to monitor this condition. We were unable to perform a particle count due to metal particles present in this sample.

Wear

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

Contamination

There is no indication of any contamination in the oil.

Fluid Condition

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		**RP0038082**	RP05263967	---
Sample Date		Client Info		**29 Jan 2024**	25 May 2021	---
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		**4084**	---	---
Iron	ppm	ASTM D5185m	>200	**4173**	4867	---
Chromium	ppm	ASTM D5185m	>15	**993**	1556	---
Nickel	ppm	ASTM D5185m	>15	**821**	1313	---
Titanium	ppm	ASTM D5185m		**<1**	2	---
Silver	ppm	ASTM D5185m		**0**	<1	---
Aluminum	ppm	ASTM D5185m	>25	**2**	4	---
Lead	ppm	ASTM D5185m	>100	**<1**	64	---
Copper	ppm	ASTM D5185m	>200	**130**	1832	---
Tin	ppm	ASTM D5185m	>25	**6**	253	---
Antimony	ppm	ASTM D5185m	>5	**---**	39	---
Vanadium	ppm	ASTM D5185m		**3**	10	---
Cadmium	ppm	ASTM D5185m		**<1**	<1	---

ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		**2**	23	---
Barium	ppm	ASTM D5185m		**0**	0	---
Molybdenum	ppm	ASTM D5185m		**7**	0	---
Manganese	ppm	ASTM D5185m		**49**	113	---
Magnesium	ppm	ASTM D5185m		**0**	2	---
Calcium	ppm	ASTM D5185m		**5**	31	---
Phosphorus	ppm	ASTM D5185m		**120**	253	---
Zinc	ppm	ASTM D5185m		**0**	38	---

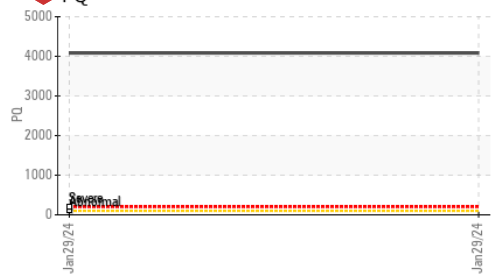
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>50	**36**	87	---
Sodium	ppm	ASTM D5185m		**6**	13	---
Potassium	ppm	ASTM D5185m	>20	**6**	0	---
Water	%	ASTM D6304	>0.2	**0.022**	0.054	---
ppm Water	ppm	ASTM D6304	>2000	**222**	544.2	---

FLUID DEGRADATION		method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045		**0.39**	0.349	---

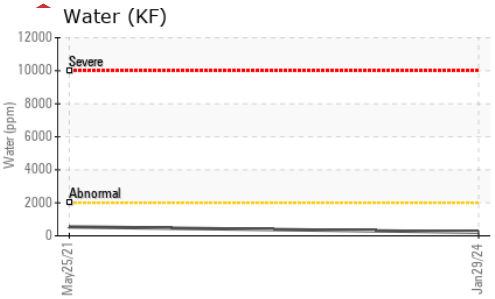
OIL ANALYSIS REPORT

PERFORMANCE UNDER PRESSURE

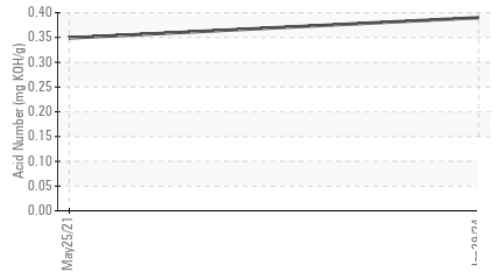
PQ



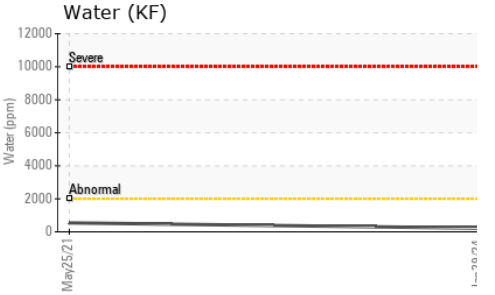
Water (KF)



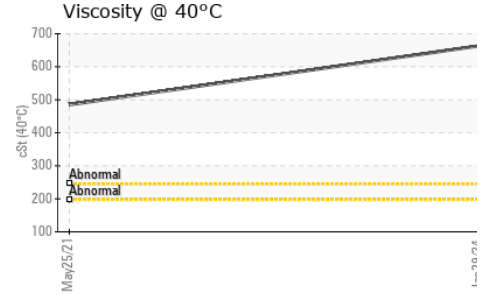
Acid Number



Water (KF)

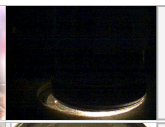
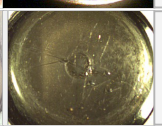


Viscosity @ 40°C



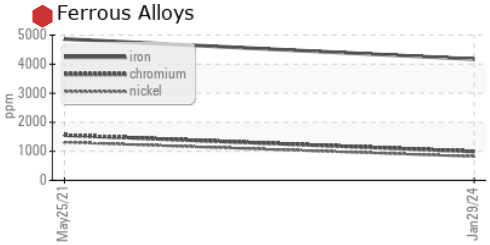
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	▲ **MODER**	NONE	---
Yellow Metal	scalar	*Visual	NONE	**NONE**	▲ MODER	---
Precipitate	scalar	*Visual	NONE	**NONE**	NONE	---
Silt	scalar	*Visual	NONE	**NONE**	NONE	---
Debris	scalar	*Visual	NONE	**NONE**	NONE	---
Sand/Dirt	scalar	*Visual	NONE	**NONE**	NONE	---
Appearance	scalar	*Visual	NORML	**NORML**	▲ MILKY	---
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		**663**	485	---

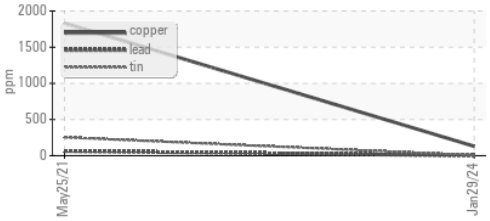
SAMPLE IMAGES	method	limit/base	current	history1	history2
Color					*no image*
Bottom					*no image*

GRAPHS

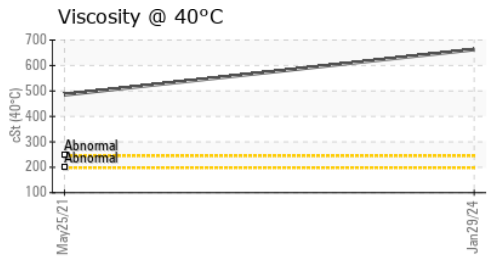
Ferrous Alloys



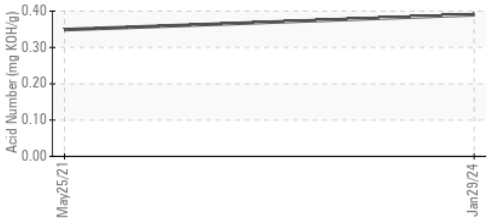
Non-ferrous Metals



Viscosity @ 40°C



Acid Number



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : RP0038082
Lab Number : 06074716
Unique Number : 10856807
Test Package : IND 2 (Additional Tests: PQ, PrtCount)

Received : 30 Jan 2024
Tested : 05 Feb 2024
Diagnosed : 05 Feb 2024 - Jonathan Hester

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 5
200 BAYBRIDGE RD
MOBILE, AL
US 36610
Contact: WAYNE PERRY
wayne.perry@kcc.com
T: (251)330-2386
F: (251)452-6335

Report Id: KIMMOBTM5 [WUSCAR] 06074716 (Generated: 02/11/2024 06:05:22) Rev: 1

Contact/Location: WAYNE PERRY - KIMMOBTM5