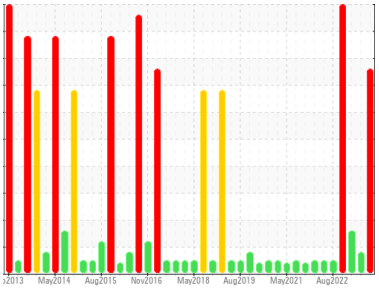
PROBLEM SUMMARY

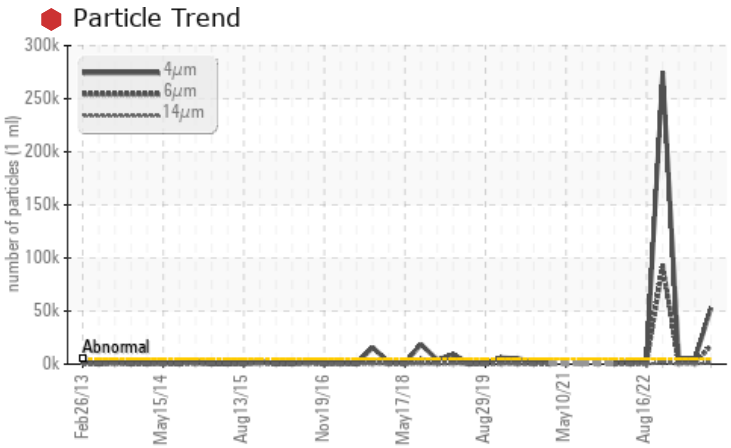
Sample Rating Trend



ISO

Area
TM 6
Machine Id
1ST PRESSURE ROLL HYDRAULIC
Component
Hydraulic System
Fluid
AW HYDRAULIC OIL ISO 68 (250 GAL)

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	ABNORMAL	ABNORMAL
Particles >4µm		ASTM D7647	>5000	**52932**	4516	4785
Particles >6µm		ASTM D7647	>1300	**17586**	▲ 1354	▲ 1588
Particles >14µm		ASTM D7647	>160	**1417**	97	▲ 185
Particles >21µm		ASTM D7647	>40	**314**	23	▲ 55
Oil Cleanliness		ISO 4406 (c)	>19/17/14	**23/21/18**	▲ 19/18/14	▲ 19/18/15

Customer Id: KIMMOBTM6
Sample No.: RP0034414
Lab Number: 05932789
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
Change Filter	---	---	?	We recommend you service the filters on this component if applicable.

HISTORICAL DIAGNOSIS

24 May 2023 Diag: Don Baldridge

ISO

No corrective action is recommended at this time. Resample at the next service interval to monitor.All component wear rates are normal. There is a moderate amount of silt (particulates < 14 microns in size) 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 Baldridge

ISO

No corrective action is recommended at this time. Resample at the next service interval to monitor.All component wear rates are normal. There is a moderate 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

06 Nov 2022 Diag: Angela Borella

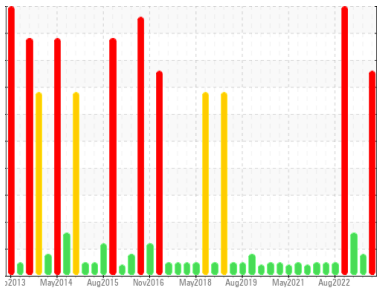
WEAR

We recommend an early resample to monitor this condition.The iron level is abnormal. All other component wear rates are normal. There is a high amount of particulates present in the oil. The AN level is above the recommended limit. Additive levels indicate the addition of a different brand, or type of oil. Viscosity of sample indicates oil is within ISO 220 range, advise investigate. Confirm oil type.

view report

OIL ANALYSIS REPORT

Sample Rating Trend



ISO

Area
TM 6
Machine Id
1ST PRESSURE ROLL HYDRAULIC
Component
Hydraulic System
Fluid
AW HYDRAULIC OIL ISO 68 (250 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.

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		**RP0034414**	RP0023536	RP0030378
Sample Date		Client Info		**09 Aug 2023**	24 May 2023	21 Feb 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**	ABNORMAL	ABNORMAL

WEAR METALS		method	limit/base	current	history1	history2
PQ		ASTM D8184		**7**	14	12
Iron	ppm	ASTM D5185m	>20	**0**	<1	0
Chromium	ppm	ASTM D5185m	>20	**<1**	0	0
Nickel	ppm	ASTM D5185m	>20	**0**	0	0
Titanium	ppm	ASTM D5185m		**0**	0	0
Silver	ppm	ASTM D5185m		**0**	0	0
Aluminum	ppm	ASTM D5185m	>20	**<1**	<1	0
Lead	ppm	ASTM D5185m	>20	**0**	0	0
Copper	ppm	ASTM D5185m	>20	**10**	10	10
Tin	ppm	ASTM D5185m	>20	**0**	0	0
Vanadium	ppm	ASTM D5185m		**<1**	0	0
Cadmium	ppm	ASTM D5185m		**0**	0	<1

ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	5	**0**	0	0
Barium	ppm	ASTM D5185m	5	**0**	0	0
Molybdenum	ppm	ASTM D5185m	5	**<1**	<1	<1
Manganese	ppm	ASTM D5185m		**<1**	<1	<1
Magnesium	ppm	ASTM D5185m	25	**32**	27	30
Calcium	ppm	ASTM D5185m	200	**36**	35	37
Phosphorus	ppm	ASTM D5185m	300	**272**	272	257
Zinc	ppm	ASTM D5185m	370	**312**	307	304

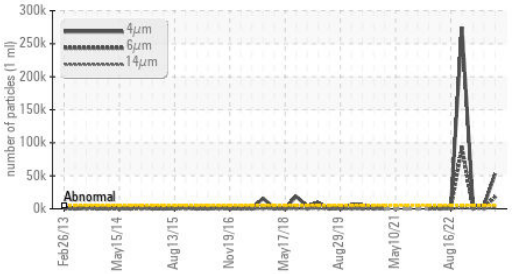
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>15	**<1**	<1	<1
Sodium	ppm	ASTM D5185m		**2**	3	3
Potassium	ppm	ASTM D5185m	>20	**0**	0	<1
Water	%	ASTM D6304	>0.05	**0.002**	0.010	0.011
ppm Water	ppm	ASTM D6304	>500	**22.6**	102.9	110.7

FLUID CLEANLINESS		method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>5000	**52932**	4516	4785
Particles >6µm		ASTM D7647	>1300	**17586**	▲ 1354	▲ 1588
Particles >14µm		ASTM D7647	>160	**1417**	97	▲ 185
Particles >21µm		ASTM D7647	>40	**314**	23	▲ 55
Particles >38µm		ASTM D7647	>10	**7**	0	3
Particles >71µm		ASTM D7647	>3	**0**	0	0
Oil Cleanliness		ISO 4406 (c)	>19/17/14	**23/21/18**	▲ 19/18/14	▲ 19/18/15

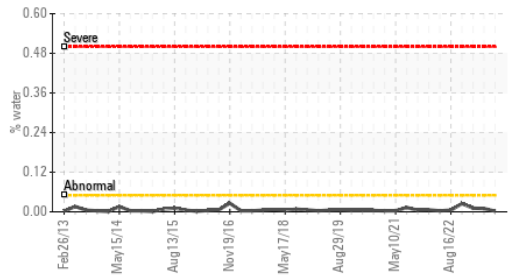
FLUID DEGRADATION		method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045	0.57	**0.30**	0.29	0.28

OIL ANALYSIS REPORT

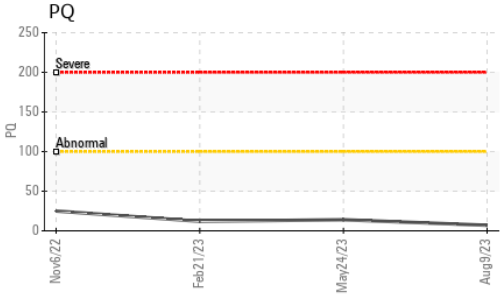
Particle Trend



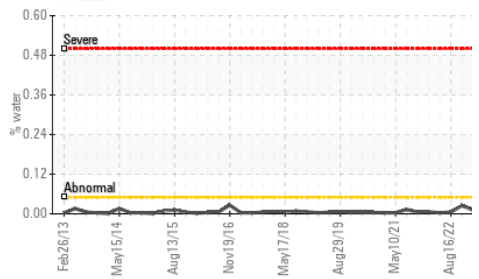
Water



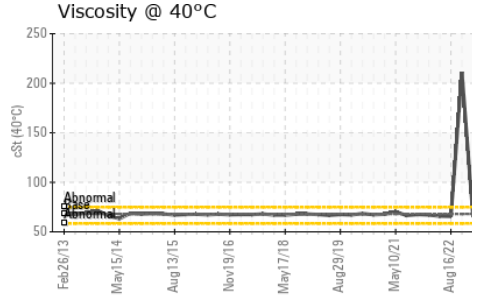
PQ



Water



Viscosity @ 40°C



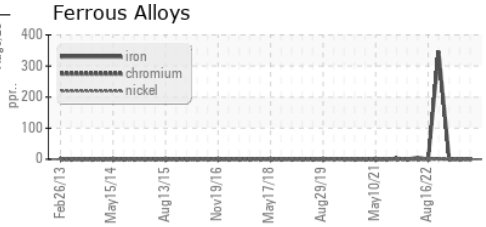
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	**NONE**	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	**NONE**	NONE	NONE
Precipitate	scalar	*Visual	NONE	**NONE**	NONE	NONE
Silt	scalar	*Visual	NONE	**NONE**	NONE	NONE
Debris	scalar	*Visual	NONE	**LIGHT**	LIGHT	NONE
Sand/Dirt	scalar	*Visual	NONE	**NONE**	NONE	NONE
Appearance	scalar	*Visual	NORML	**NORML**	NORML	NORML
Odor	scalar	*Visual	NORML	**NORML**	NORML	NORML
Emulsified Water	scalar	*Visual	>0.05	**NEG**	NEG	NEG
Free Water	scalar	*Visual		**NEG**	NEG	NEG

FLUID PROPERTIES		method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	68	**65.0**	64.3	65.5

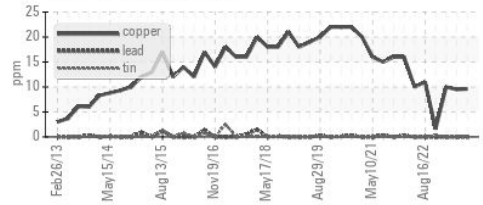
SAMPLE IMAGES	method	limit/base	current	history1	history2
Color					
Bottom					

GRAPHS

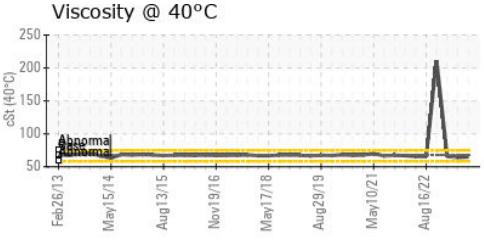
Ferrous Alloys



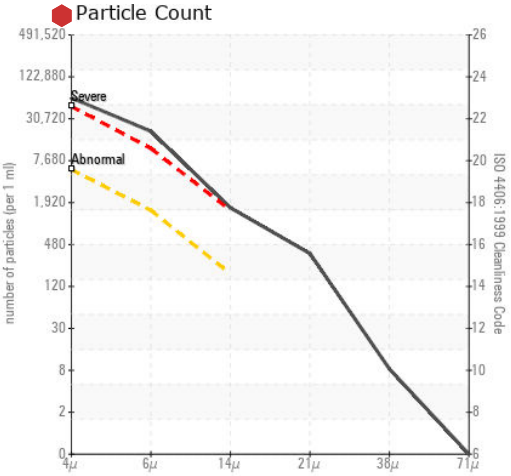
Non-ferrous Metals



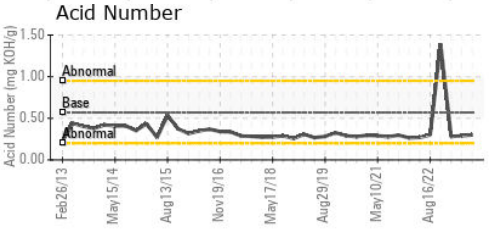
Viscosity @ 40°C



Particle Count



Acid Number



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : RP0034414 **Received** : 23 Aug 2023
Lab Number : 05932789 **Diagnosed** : 26 Aug 2023
Unique Number : 10618060 **Diagnostician** : Don Baldridge
Test Package : IND 2 (Additional Tests: PQ)

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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