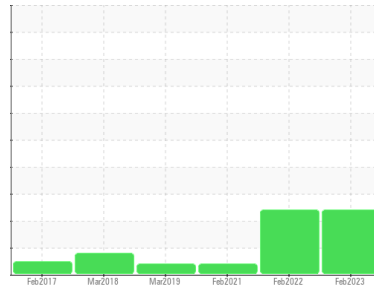


PROBLEM SUMMARY

Sample Rating Trend



WATER



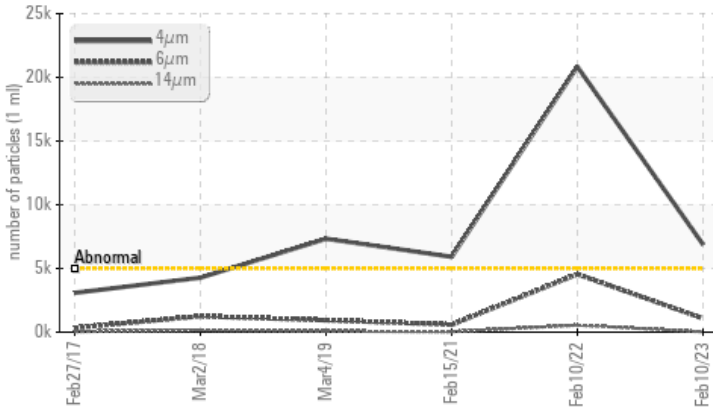
Machine Id
DIRECT CAST MAIN HYD DCMHYD

Component
Main Hydraulic System

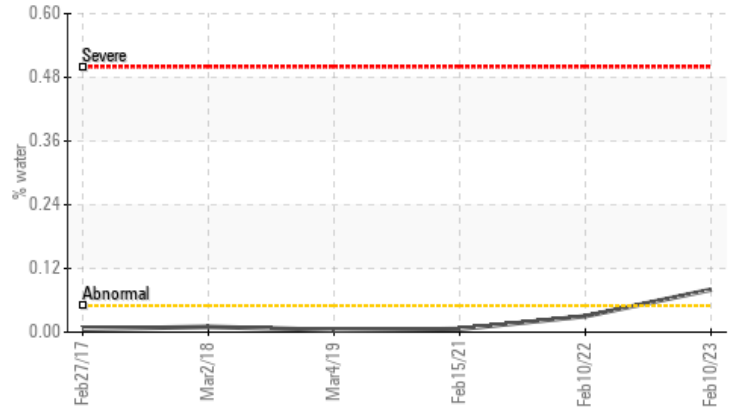
Fluid
AW HYDRAULIC OIL ISO 46 (180 GAL)

COMPONENT CONDITION SUMMARY

▲ Particle Trend



▲ Water



RECOMMENDATION

Resample at the next service interval to monitor.
Due to an abnormal test result it is recommended to contact Stauff Corp at (201)-444-7800 for help resolving the issue.

PROBLEMATIC TEST RESULTS

Sample Status				ATTENTION	ABNORMAL	ATTENTION
Water	%	ASTM D6304	>0.05	▲ 0.080	0.030	0.006
ppm Water	ppm	ASTM D6304	>500	▲ 808.5	309.1	66.3
Particles >4µm		ASTM D7647	>5000	▲ 6883	▲ 20838	▲ 5912
Oil Cleanliness		ISO 4406 (c)	>19/17/14	▲ 20/17/11	▲ 22/19/16	▲ 20/16/12

Customer Id: KOBPIN
Sample No.: ST44868
Lab Number: 05768796
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
Contact Required	---	---	?	Due to an abnormal test result it is recommended to contact Stauff Corp at (201)-444-7800 for help resolving the issue.
Other Action (see Note)	DONE	Mar 09 2023	?	No recommended actions

HISTORICAL DIAGNOSIS

10 Feb 2022 Diag: Doug Bogart

ISO



We recommend you service the filters on this component. Resample at the next service interval to monitor. Due to an abnormal test result it is recommended to contact Stauff Corp at (201)-444-7800 for help resolving the issue. All 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



15 Feb 2021 Diag: Doug Bogart

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 < 6 microns in size) present in the oil. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

view report



04 Mar 2019 Diag: Don Baldrige

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 suitable for further service.

view report

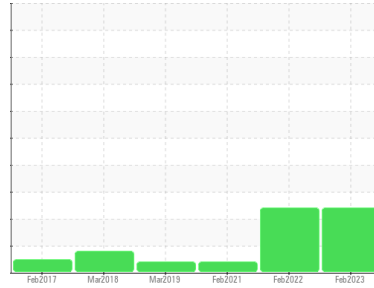




Machine Id
DIRECT CAST MAIN HYD DCMHYD

Component
Main Hydraulic System

Fluid
AW HYDRAULIC OIL ISO 46 (180 GAL)



DIAGNOSIS

Recommendation

Resample at the next service interval to monitor. Due to an abnormal test result it is recommended to contact Stauff Corp at (201)-444-7800 for help resolving the issue.

Wear

All component wear rates are normal.

Contamination

There is a moderate amount of silt (particulates < 14 microns in size) present in the oil. There is a light concentration of water 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		ST44868	ST37294	ST42595
Sample Date	Client Info		10 Feb 2023	10 Feb 2022	15 Feb 2021
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			ATTENTION	ABNORMAL	ATTENTION

WEAR METALS

	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m >20	2	4	2
Chromium	ppm	ASTM D5185m >20	<1	<1	<1
Nickel	ppm	ASTM D5185m >20	0	<1	0
Titanium	ppm	ASTM D5185m	0	0	0
Silver	ppm	ASTM D5185m	0	<1	<1
Aluminum	ppm	ASTM D5185m >20	0	0	0
Lead	ppm	ASTM D5185m >20	0	<1	0
Copper	ppm	ASTM D5185m >20	6	6	2
Tin	ppm	ASTM D5185m >20	0	0	0
Antimony	ppm	ASTM D5185m	---	0	0
Vanadium	ppm	ASTM D5185m	0	0	0
Cadmium	ppm	ASTM D5185m	0	<1	0

ADDITIVES

	method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m 5	0	1	2
Barium	ppm	ASTM D5185m 5	0	0	0
Molybdenum	ppm	ASTM D5185m 5	1	<1	1
Manganese	ppm	ASTM D5185m	0	0	0
Magnesium	ppm	ASTM D5185m 25	4	2	4
Calcium	ppm	ASTM D5185m 200	58	42	61
Phosphorus	ppm	ASTM D5185m 300	268	312	320
Zinc	ppm	ASTM D5185m 370	335	375	353
Sulfur	ppm	ASTM D5185m 2500	2322	1186	860

CONTAMINANTS

	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m >15	1	2	<1
Sodium	ppm	ASTM D5185m	1	4	0
Potassium	ppm	ASTM D5185m >20	0	<1	0
Water	%	ASTM D6304 >0.05	▲ 0.080	0.030	0.006
ppm Water	ppm	ASTM D6304 >500	▲ 808.5	309.1	66.3

FLUID CLEANLINESS

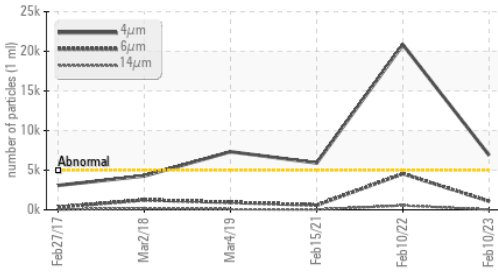
	method	limit/base	current	history1	history2
Particles >4µm	ASTM D7647	>5000	▲ 6883	▲ 20838	▲ 5912
Particles >6µm	ASTM D7647	>1300	1078	▲ 4549	586
Particles >14µm	ASTM D7647	>160	20	▲ 548	31
Particles >21µm	ASTM D7647	>40	3	▲ 165	8
Particles >38µm	ASTM D7647	>10	0	▲ 25	0
Particles >71µm	ASTM D7647	>3	0	▲ 4	0
Oil Cleanliness	ISO 4406 (c)	>19/17/14	▲ 20/17/11	▲ 22/19/16	▲ 20/16/12

FLUID DEGRADATION

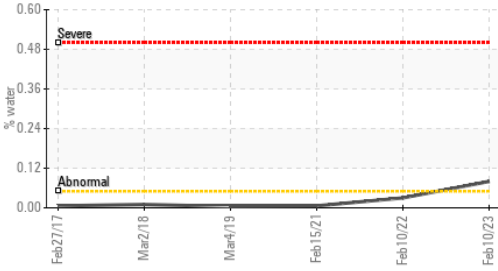
	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045 0.57	0.34	0.38	0.423

OIL ANALYSIS REPORT

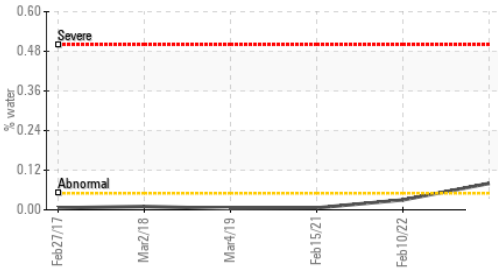
▲ Particle Trend



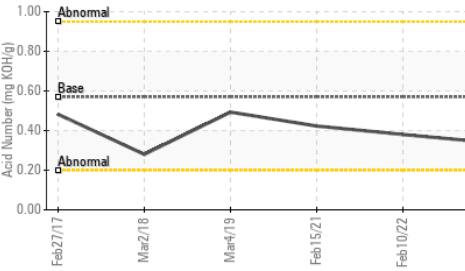
▲ Water



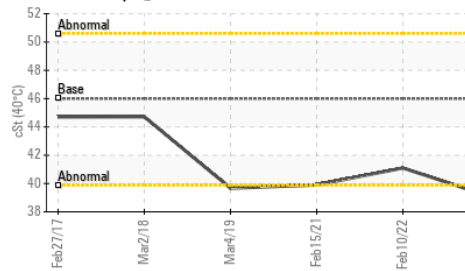
▲ Water



Acid Number



Viscosity @ 40°C



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	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>0.05	NEG	NEG
Free Water	scalar	*Visual		NEG	NEG

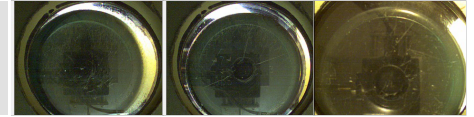
FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	46	39.1	41.1

SAMPLE IMAGES	method	limit/base	current	history1	history2
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Color

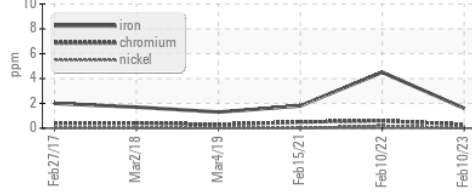


Bottom

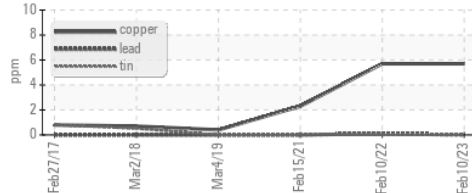


GRAPHS

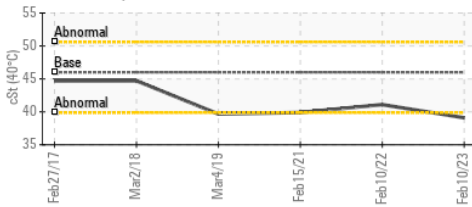
Ferrous Alloys



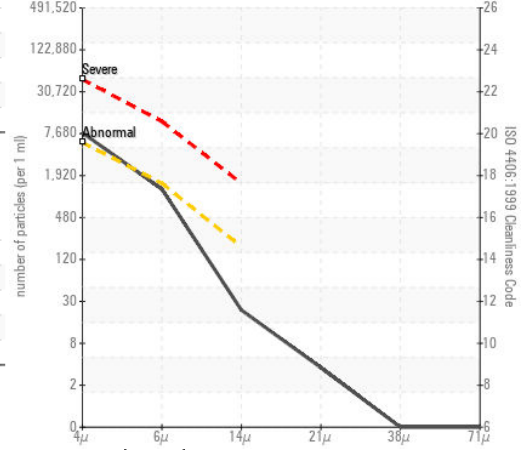
Non-ferrous Metals



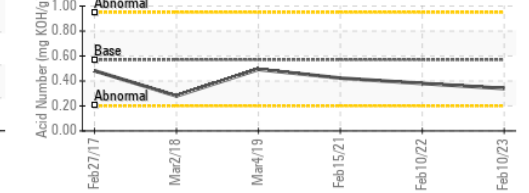
Viscosity @ 40°C



▲ Particle Count



Acid Number



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : ST44868
Lab Number : 05768796
Unique Number : 10338404
Test Package : IND 2 (Additional Tests: KF)
Received : 15 Feb 2023
Diagnosed : 17 Feb 2023
Diagnostician : Don Baldrige

KOBE WIELAND COPPER PRODUCTS
 3990 HWY. 311
 PINE HALL, NC
 US 27042
 Contact: CHRISTOPHER DRAKE
 christopher.drake@wieland.com
 T: (336)445-4500
 F:

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)