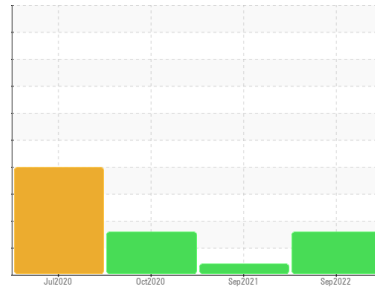


PROBLEM SUMMARY

Sample Rating Trend



ISO



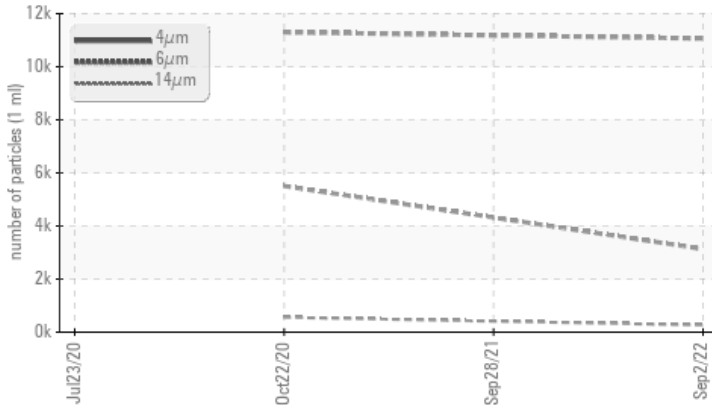
Machine Id
KAESER 7317993

Component
Compressor

Fluid
KAESER SIGMA (OEM) S-460 (--- GAL)

COMPONENT CONDITION SUMMARY

▲ Particle Trend



RECOMMENDATION

No corrective action is recommended at this time. Oil and filter change at the time of sampling has been noted. Resample at the next service interval to monitor.

PROBLEMATIC TEST RESULTS

Sample Status	ASTM D7647	ISO 4406 (c)	ABNORMAL	ABNORMAL	ABNORMAL
Particles >6µm	>1300	▲ 3130	---	▲ 5505	---
Particles >14µm	>80	▲ 263	---	▲ 556	---
Particles >21µm	>20	▲ 40	---	▲ 174	---
Oil Cleanliness	>--/17/13	▲ 21/19/15	---	▲ 20/16	---

Customer Id: UPSEDI
Sample No.: KC106201
Lab Number: 05636536
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 Fluid	---	---	?	Oil and filter change at the time of sampling has been noted.
Change Filter	---	---	?	Oil and filter change at the time of sampling has been noted.

HISTORICAL DIAGNOSIS

28 Sep 2021 Diag: Jonathan Hester

VIS DEBRIS



Oil and filter change at the time of sampling has been noted. 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 suitable for further service.

[view report](#)



22 Oct 2020 Diag: Angela Borella

ISO



No corrective action is recommended at this time. Oil and filter change at the time of sampling has been noted. Resample at the next service interval to monitor. 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](#)



23 Jul 2020 Diag: Jonathan Hester

WATER

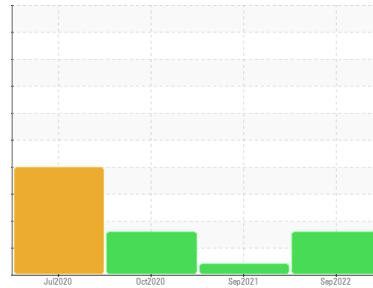


We advise that you stop the unit and follow the water drain-off procedure for this component. We recommend you service the filters on this component. We recommend an early resample in 500 hours to monitor this condition. We were unable to perform a particle count due to a high concentration of particles present in this sample. All component wear rates are normal. Free water present. There is a moderate concentration of water present in the oil. There is a moderate amount of visible silt present in the sample. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

[view report](#)



Machine Id
KAESER 7317993
Component
Compressor
Fluid
KAESER SIGMA (OEM) S-460 (--- GAL)



DIAGNOSIS

Recommendation

No corrective action is recommended at this time. Oil and filter change at the time of sampling has been noted. 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	history 1	history 2
Sample Number			KC106201	KC92435	KC91138
Sample Date			02 Sep 2022	28 Sep 2021	22 Oct 2020
Machine Age	hrs		8997	7862	3091
Oil Age	hrs		546	4771	3091
Oil Changed			Changed	Changed	Changed
Sample Status			ABNORMAL	ABNORMAL	ABNORMAL

WEAR METALS

	method	limit/base	current	history 1	history 2
Iron	ppm ASTM D5185m	>50	0	<1	1
Chromium	ppm ASTM D5185m	>10	0	0	0
Nickel	ppm ASTM D5185m	>3	0	0	0
Titanium	ppm ASTM D5185m	>3	0	0	0
Silver	ppm ASTM D5185m	>2	0	<1	0
Aluminum	ppm ASTM D5185m	>10	0	0	0
Lead	ppm ASTM D5185m	>10	0	0	0
Copper	ppm ASTM D5185m	>50	9	16	13
Tin	ppm ASTM D5185m	>10	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	history 1	history 2
Boron	ppm ASTM D5185m		0	0	15
Barium	ppm ASTM D5185m	90	0	0	0
Molybdenum	ppm ASTM D5185m		0	0	<1
Manganese	ppm ASTM D5185m		0	0	<1
Magnesium	ppm ASTM D5185m	90	0	2	33
Calcium	ppm ASTM D5185m	2	0	0	2
Phosphorus	ppm ASTM D5185m		0	0	5
Zinc	ppm ASTM D5185m		14	19	13

CONTAMINANTS

	method	limit/base	current	history 1	history 2
Silicon	ppm ASTM D5185m	>25	0	0	<1
Sodium	ppm ASTM D5185m		<1	0	13
Potassium	ppm ASTM D5185m	>20	0	0	1
Water	% ASTM D6304	>0.05	0.009	0.006	0.019
ppm Water	ppm ASTM D6304	>500	97.5	65.2	194.6

FLUID CLEANLINESS

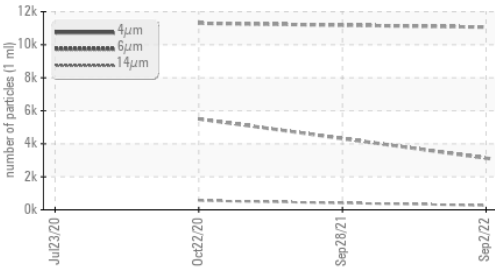
	method	limit/base	current	history 1	history 2
Particles >4µm	ASTM D7647		11064	---	11298
Particles >6µm	ASTM D7647	>1300	▲ 3130	---	▲ 5505
Particles >14µm	ASTM D7647	>80	▲ 263	---	▲ 556
Particles >21µm	ASTM D7647	>20	▲ 40	---	▲ 174
Particles >38µm	ASTM D7647	>4	2	---	▲ 8
Particles >71µm	ASTM D7647	>3	0	---	0
Oil Cleanliness	ISO 4406 (c)	>--/17/13	▲ 21/19/15	---	▲ 20/16

FLUID DEGRADATION

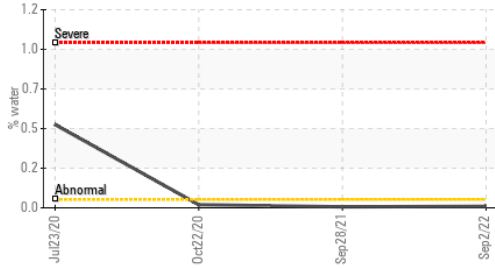
	method	limit/base	current	history 1	history 2
Acid Number (AN)	mg KOH/g ASTM D8045	0.4	0.41	0.336	0.268

OIL ANALYSIS REPORT

▲ Particle Trend



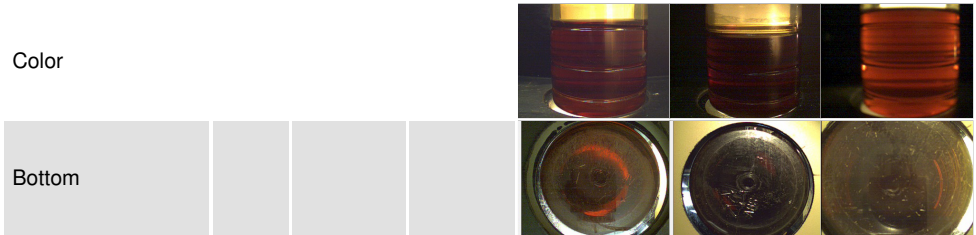
Water



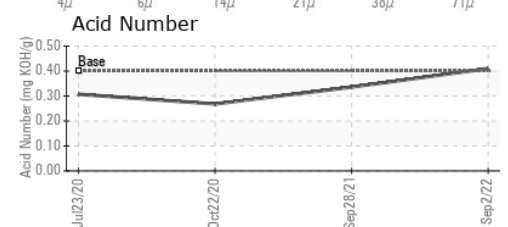
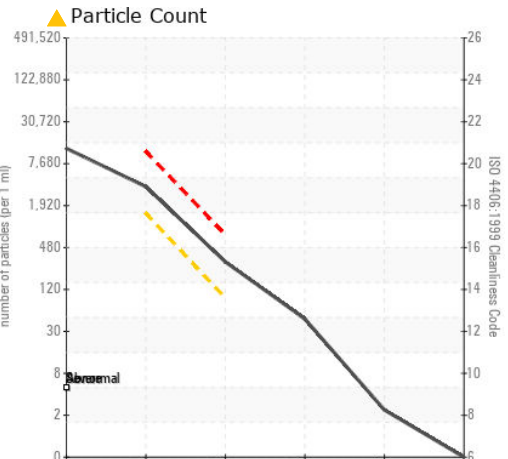
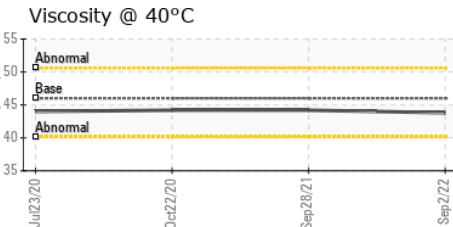
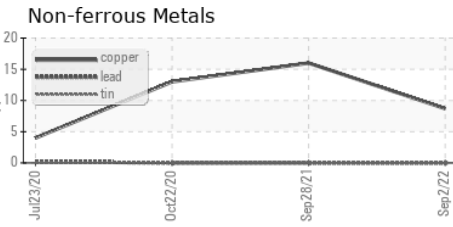
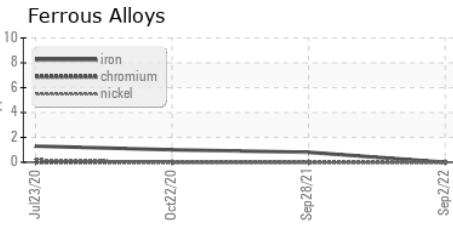
VISUAL	method	limit/base	current	history 1	history 2
White Metal	scalar	*Visual	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	LIGHT	▲ MODER
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>0.05	NEG	NEG
Free Water	scalar	*Visual		NEG	NEG

FLUID PROPERTIES	method	limit/base	current	history 1	history 2
Visc @ 40°C	cSt	ASTM D445	46	43.8	44.2

SAMPLE IMAGES	method	limit/base	current	history 1	history 2
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GRAPHS



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : KC106201
Lab Number : 05636536
Unique Number : 10126066
Test Package : IND 2
Received : 08 Sep 2022
Diagnosed : 09 Sep 2022
Diagnostician : Don Baldrige

UPS
 1 CLOVER RD
 EDISON, NJ
 USA 08837
 Contact: Service Manager

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)

T:
F: