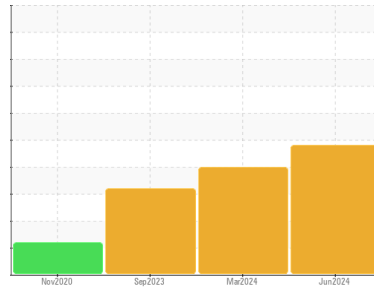




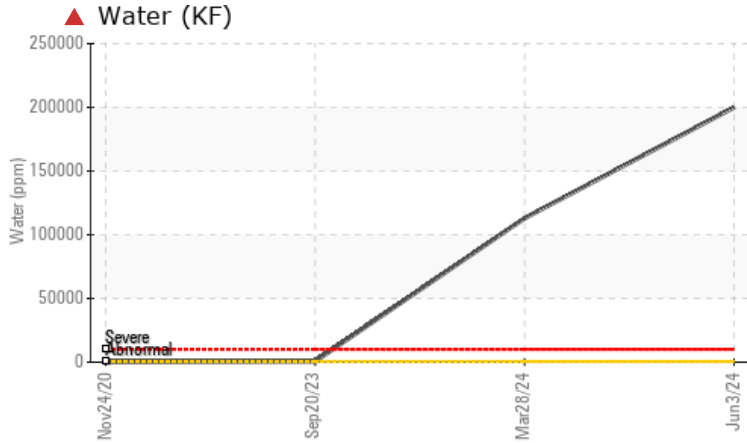
PROBLEM SUMMARY

Machine Id
KAESER 7337513
 Component
Compressor
 Fluid
KAESER SIGMA (OEM) S-460 (--- GAL)

Sample Rating Trend



COMPONENT CONDITION SUMMARY



RECOMMENDATION

We advise that you follow the water drain-off procedure for this component. We advise an early resample to confirm this situation.

PROBLEMATIC TEST RESULTS

Sample Status				SEVERE	SEVERE	ABNORMAL
Water	%	ASTM D6304	>0.05	▲ >2.0	▲ 11.3	▲ 0.064
ppm Water	ppm	ASTM D6304	>500	▲ 200000	▲ 113000	▲ 640
Silt	scalar	*Visual	NONE	▲ HEAVY	NONE	NONE
Emulsified Water	scalar	*Visual	>0.05	▲ 0.2%	▲ 0.2%	0.2%

Customer Id: OLDMANOH
 Sample No.: KC123144
 Lab Number: 06208242
 Test Package: IND 2



To manage this report scan the QR code

To discuss the diagnosis or test data:
 Doug Bogart +1 (800)237-1369 x4016
dougb@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
Water Drain-off	---	---	?	We advise that you follow the water drain-off procedure for this component.
Resample	---	---	?	We advise an early resample to confirm this situation.

HISTORICAL DIAGNOSIS

WATER



28 Mar 2024 Diag: Doug Bogart

We advise that you follow the water drain-off procedure for this component. We advise an early resample to confirm this situation. {not applicable} Appearance is unacceptable. Sample consists almost entirely of an emulsified solution. There is a high concentration of water present in the oil. The oil is no longer serviceable due to the presence of contaminants.

view report



WATER



20 Sep 2023 Diag: Jonathan Hester

The filter change at the time of sampling has been noted. We advise that you stop the unit and follow the water drain-off procedure for this component. We recommend an early resample in 500 hours to monitor this condition. All component wear rates are normal. There is a high amount of particulates present in the oil. There is a light concentration of water present in the oil. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

view report



ISO



24 Nov 2020 Diag: Angela Borella

The 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.

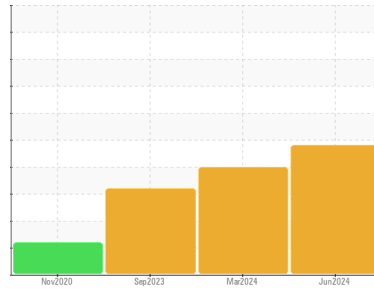
view report





OIL ANALYSIS REPORT

Sample Rating Trend



WATER



Machine Id
KAESER 7337513
 Component
Compressor
 Fluid
KAESER SIGMA (OEM) S-460 (--- GAL)

DIAGNOSIS

▲ Recommendation

We advise that you follow the water drain-off procedure for this component. We advise an early resample to confirm this situation.

▲ Contamination

Appearance is unacceptable. Sample consists almost entirely of an emulsified solution. There is a high concentration of water present in the oil. There is a high amount of visible silt present in the sample.

Fluid Condition

The oil is no longer serviceable due to the presence of contaminants.

SAMPLE INFORMATION		method	limit/base	current	history1	history2
Sample Number	Client Info			KC123144	KC125868	KC121459
Sample Date	Client Info			03 Jun 2024	28 Mar 2024	20 Sep 2023
Machine Age	hrs	Client Info		1612	1576	1503
Oil Age	hrs	Client Info		0	0	0
Oil Changed	Client Info			N/A	N/A	N/A
Sample Status				SEVERE	SEVERE	ABNORMAL

WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>50	---	---	20
Chromium	ppm	ASTM D5185m	>10	---	---	0
Nickel	ppm	ASTM D5185m	>3	---	---	2
Titanium	ppm	ASTM D5185m	>3	---	---	0
Silver	ppm	ASTM D5185m	>2	---	---	0
Aluminum	ppm	ASTM D5185m	>10	---	---	0
Lead	ppm	ASTM D5185m	>10	---	---	0
Copper	ppm	ASTM D5185m	>50	---	---	21
Tin	ppm	ASTM D5185m	>10	---	---	0
Antimony	ppm	ASTM D5185m		---	---	---
Vanadium	ppm	ASTM D5185m		---	---	0
Cadmium	ppm	ASTM D5185m		---	---	0

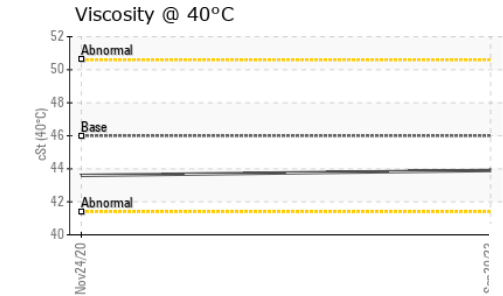
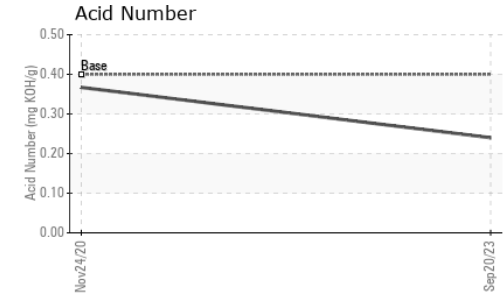
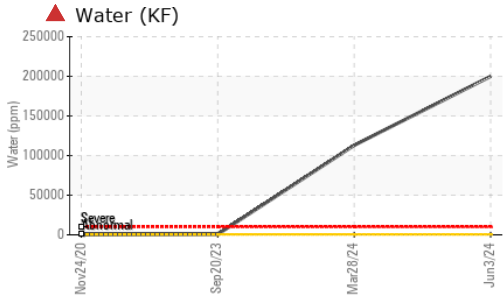
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		---	---	0
Barium	ppm	ASTM D5185m	90	---	---	0
Molybdenum	ppm	ASTM D5185m		---	---	0
Manganese	ppm	ASTM D5185m		---	---	<1
Magnesium	ppm	ASTM D5185m	90	---	---	5
Calcium	ppm	ASTM D5185m	2	---	---	0
Phosphorus	ppm	ASTM D5185m		---	---	6
Zinc	ppm	ASTM D5185m		---	---	8

CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	---	---	<1
Sodium	ppm	ASTM D5185m		---	---	4
Potassium	ppm	ASTM D5185m	>20	---	---	2
Water	%	ASTM D6304	>0.05	▲ >2.0	▲ 11.3	▲ 0.064
ppm Water	ppm	ASTM D6304	>500	▲ 200000	▲ 113000	▲ 640

FLUID CLEANLINESS		method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647		---	---	10106
Particles >6µm		ASTM D7647	>1300	---	---	▲ 3020
Particles >14µm		ASTM D7647	>80	---	---	▲ 105
Particles >21µm		ASTM D7647	>20	---	---	▲ 22
Particles >38µm		ASTM D7647	>4	---	---	0
Particles >71µm		ASTM D7647	>3	---	---	0
Oil Cleanliness		ISO 4406 (c)	>--/17/13	---	---	▲ 21/19/14

FLUID DEGRADATION		method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045	0.4	---	---	0.24

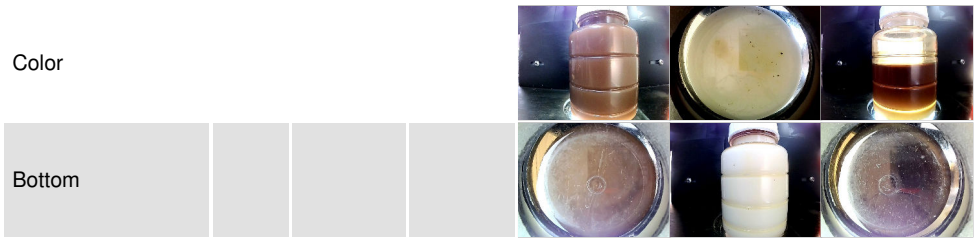
OIL ANALYSIS REPORT



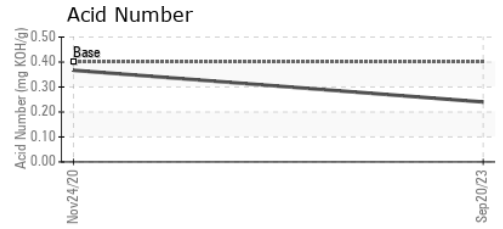
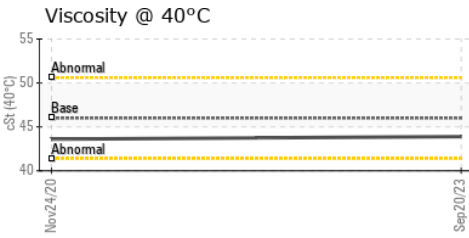
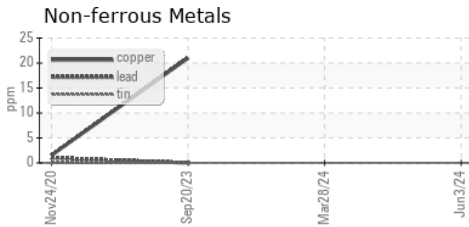
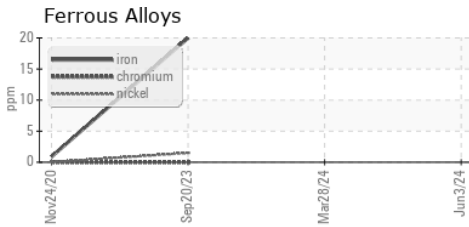
VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE
Silt	scalar	*Visual	▲ HEAVY	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE
Appearance	scalar	*Visual	● MILKY	● MILKY	NORML
Odor	scalar	*Visual	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	▲ 0.2%	▲ 0.2%	0.2%
Free Water	scalar	*Visual	NEG	NEG	NEG

FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445 46	---	---	43.9

SAMPLE IMAGES	method	limit/base	current	history1	history2
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GRAPHS



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : KC123144 **Received** : 12 Jun 2024
Lab Number : 06208242 **Tested** : 20 Jun 2024
Unique Number : 11075703 **Diagnosed** : 20 Jun 2024 - Doug Bogart
Test Package : IND 2

OLD DOMINION
 2101 AIRPORT RD W
 MANSFIELD, OH
 US 44903
 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)