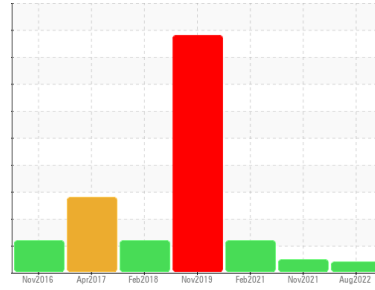


PROBLEM SUMMARY

Sample Rating Trend



VIS DEBRIS



Machine Id
KAESER ASD 25 5085468 (S/N 1031)

Component
Compressor

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

COMPONENT CONDITION SUMMARY

No relevant graphs to display

RECOMMENDATION

The 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.

PROBLEMATIC TEST RESULTS

Sample Status		ABNORMAL	NORMAL	ATTENTION
Debris	scalar *Visual	▲ MODER	NONE	NONE

Customer Id: YUNELK
Sample No.: KCP49667
Lab Number: 05628368
Test Package: IND 2



To manage this report scan the QR code

To discuss the diagnosis or test data:
Angela Borella +1 800-237-1369
angela.borella@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
Alert	---	---	?	We were unable to perform a particle count due to a high concentration of particles present in this sample.

HISTORICAL DIAGNOSIS

08 Nov 2021 Diag: Don Baldrige

NORMAL



Resample at the next service interval to monitor. All component wear rates are normal. The amount and size of particulates present in the system are acceptable. There is no indication of any contamination in the oil. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

view report



01 Feb 2021 Diag: Jonathan Hester

ISO



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 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



07 Nov 2019 Diag: Jonathan Hester

WATER



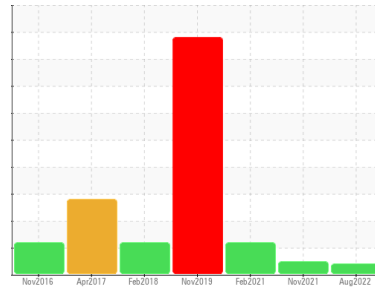
We advise that you stop the unit and follow the water drain-off procedure for this component. The filter change at the time of sampling has been noted. We recommend an early resample in 500 hours to monitor this condition. All component wear rates are normal. There is a moderate amount of particulates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

view report



Machine Id
KAESER ASD 25 5085468 (S/N 1031)

Component
Compressor
Fluid
KAESER SIGMA (OEM) S-460 (--- QTS)



DIAGNOSIS

▲ Recommendation

The 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.

Wear

All component wear rates are normal.

▲ Contamination

Moderate concentration of visible dirt/debris 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		KCP49667	KCP11937	KCP34541
Sample Date		22 Aug 2022	08 Nov 2021	01 Feb 2021
Machine Age	hrs	29709	26233	22945
Oil Age	hrs	3000	3000	3000
Oil Changed		Not Changed	Changed	Not Changed
Sample Status		ABNORMAL	NORMAL	ATTENTION

WEAR METALS

method	limit/base	current	history 1	history 2
Iron ppm	ASTM D5185m >50	<1	0	<1
Chromium ppm	ASTM D5185m >10	0	0	0
Nickel ppm	ASTM D5185m >3	<1	0	0
Titanium ppm	ASTM D5185m >3	0	0	0
Silver ppm	ASTM D5185m >2	<1	<1	<1
Aluminum ppm	ASTM D5185m >10	2	0	<1
Lead ppm	ASTM D5185m >10	0	0	0
Copper ppm	ASTM D5185m >50	3	7	5
Tin ppm	ASTM D5185m >10	<1	0	0
Antimony ppm	ASTM D5185m	---	0	0
Vanadium ppm	ASTM D5185m	0	0	0
Cadmium ppm	ASTM D5185m	0	0	0

ADDITIVES

method	limit/base	current	history 1	history 2
Boron ppm	ASTM D5185m	<1	<1	10
Barium ppm	ASTM D5185m 90	<1	0	0
Molybdenum ppm	ASTM D5185m	0	0	0
Manganese ppm	ASTM D5185m	0	0	<1
Magnesium ppm	ASTM D5185m 90	67	44	73
Calcium ppm	ASTM D5185m 2	<1	0	<1
Phosphorus ppm	ASTM D5185m	<1	0	1
Zinc ppm	ASTM D5185m	27	52	19
Sulfur ppm	ASTM D5185m	17373	16062	15881

CONTAMINANTS

method	limit/base	current	history 1	history 2
Silicon ppm	ASTM D5185m >25	<1	0	<1
Sodium ppm	ASTM D5185m	33	47	49
Potassium ppm	ASTM D5185m >20	<1	5	4
Water %	ASTM D6304 >0.05	0.023	0.021	0.021
ppm Water	ASTM D6304 >500	237.3	217.8	211.5

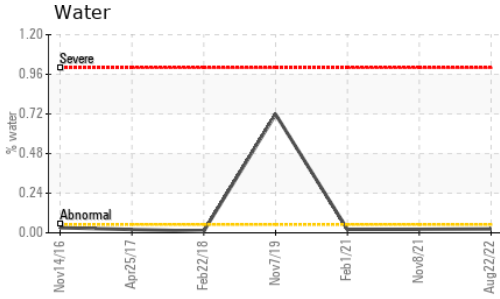
FLUID CLEANLINESS

method	limit/base	current	history 1	history 2
Particles >4µm	ASTM D7647	---	3076	4471
Particles >6µm	ASTM D7647 >1300	---	504	▲ 1356
Particles >14µm	ASTM D7647 >80	---	33	▲ 104
Particles >21µm	ASTM D7647 >20	---	10	▲ 23
Particles >38µm	ASTM D7647 >4	---	0	1
Particles >71µm	ASTM D7647 >3	---	0	0
Oil Cleanliness	ISO 4406 (c) >--/17/13	---	16/12	▲ 18/14

FLUID DEGRADATION

method	limit/base	current	history 1	history 2
Acid Number (AN) mg KOH/g	ASTM D8045 0.4	0.35	0.077	0.274

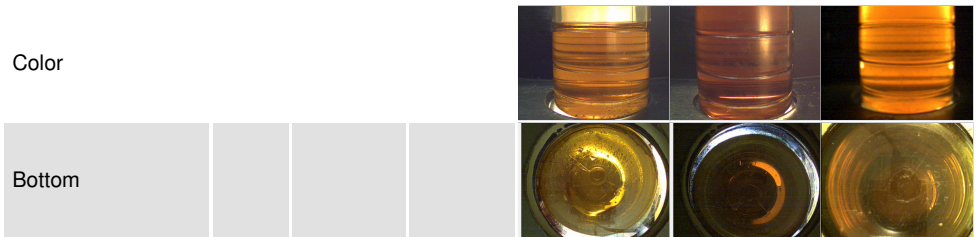
OIL ANALYSIS REPORT



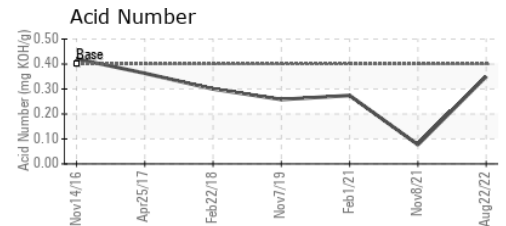
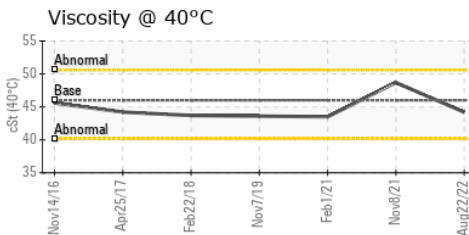
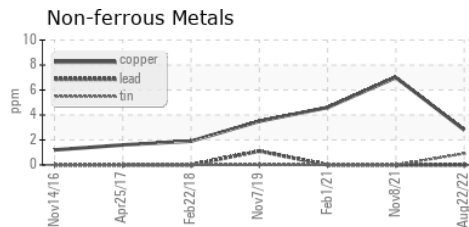
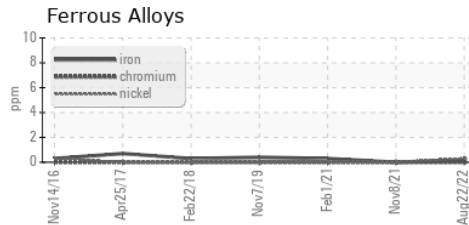
VISUAL	method	limit/base	current	history 1	history 2
White Metal	scalar	*Visual	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE
Debris	scalar	*Visual	▲ MODER	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE
Appearance	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	history 1	history 2
Visc @ 40°C	cSt	ASTM D445	46	44.2	48.7

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. : KCP49667 **Received** : 26 Aug 2022
Lab Number : 05628368 **Diagnosed** : 30 Aug 2022
Unique Number : 10112889 **Diagnostician** : Angela Borella
Test Package : IND 2 (Additional Tests: KF, PrtCount)

YUNKER INDUSTRIES
 310 OCONNOR DR
 ELKHORN, WI
 USA 53121
 Contact:

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: