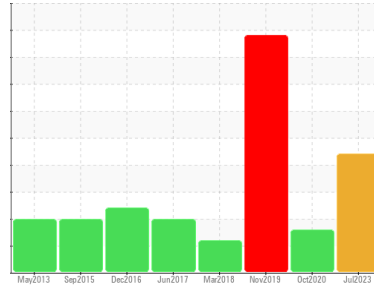




PROBLEM SUMMARY

Sample Rating Trend



WATER



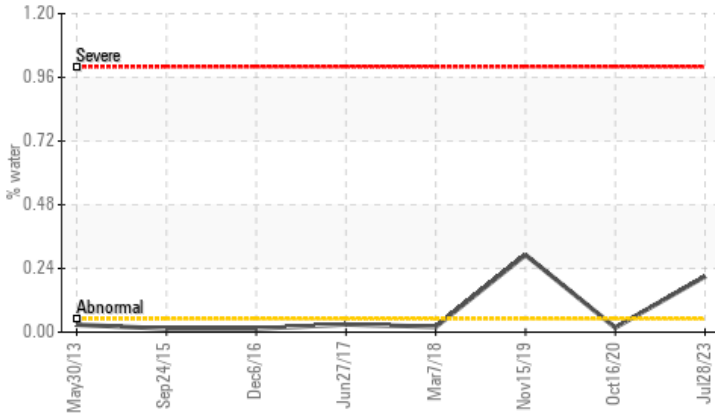
Machine Id
KAESER SK 15 4454473 (S/N 1311)

Component
Compressor

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

COMPONENT CONDITION SUMMARY

▲ Water



RECOMMENDATION

The filter change at the time of sampling has been noted. We were unable to perform a particle count due to a high concentration of particles present in this sample. 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.

PROBLEMATIC TEST RESULTS

Sample Status				ABNORMAL	ABNORMAL	SEVERE
Water	%	ASTM D6304	>0.05	▲ 0.210	0.017	▲ 0.291
ppm Water	ppm	ASTM D6304	>500	▲ 2100	175.6	▲ 2910
Debris	scalar	*Visual	NONE	▲ MODER	NONE	LIGHT
Appearance	scalar	*Visual	NORML	▲ HAZY	NORML	▲ LAYRD
Emulsified Water	scalar	*Visual	>0.05	▲ 0.2%	NEG	▲ 0.2%
Free Water	scalar	*Visual		▲ 1.0	NEG	● 5.0

Customer Id: CABKAN
Sample No.: KCPA004945
Lab Number: 05924313
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
Alert	---	---	?	We were unable to perform a particle count due to a high concentration of particles present in this sample.

HISTORICAL DIAGNOSIS

16 Oct 2020 Diag: Angela Borella

ISO



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



15 Nov 2019 Diag: Don Baldrige

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 high amount of particulates present in the oil. There is a light concentration of water present in the oil. Excessive free water present. The AN level is acceptable for this fluid.

view report



07 Mar 2018 Diag: Angela Borella

ISO



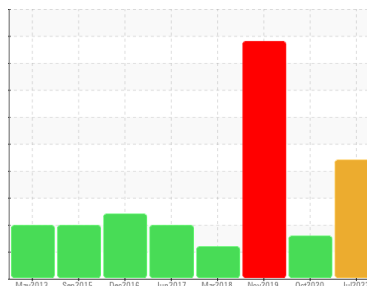
Oil and filter change at the time of sampling has been noted. Resample at the next service interval to monitor. All component wear rates are normal. There is a high amount of particulates present in the oil. The AN level is acceptable for this fluid. The condition of the oil is acceptable for the time in service.

view report



OIL ANALYSIS REPORT

Sample Rating Trend



WATER



Machine Id
KAESER SK 15 4454473 (S/N 1311)

Component
Compressor

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

DIAGNOSIS

Recommendation

The filter change at the time of sampling has been noted. We were unable to perform a particle count due to a high concentration of particles present in this sample. 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.

Wear

All component wear rates are normal.

Contamination

Moderate concentration of visible dirt/debris present in the oil. There is a light concentration of water present in the oil. Free water present.

Fluid Condition

The AN level is acceptable for this fluid.

SAMPLE INFORMATION

method	limit/base	current	history1	history2
Sample Number	Client Info	KCPA004945	KCP28769	KCP23395
Sample Date	Client Info	28 Jul 2023	16 Oct 2020	15 Nov 2019
Machine Age	hrs	11201	18278	18245
Oil Age	hrs	0	505	0
Oil Changed	Client Info	N/A	Changed	Not Chngd
Sample Status		ABNORMAL	ABNORMAL	SEVERE

WEAR METALS

method	limit/base	current	history1	history2
Iron	ppm ASTM D5185m >50	0	<1	<1
Chromium	ppm ASTM D5185m >10	0	0	0
Nickel	ppm ASTM D5185m >3	0	0	<1
Titanium	ppm ASTM D5185m >3	0	0	0
Silver	ppm ASTM D5185m >2	<1	<1	0
Aluminum	ppm ASTM D5185m >10	0	0	<1
Lead	ppm ASTM D5185m >10	0	<1	<1
Copper	ppm ASTM D5185m >50	<1	8	8
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	history1	history2
Boron	ppm ASTM D5185m	0	<1	<1
Barium	ppm ASTM D5185m 90	39	<1	0
Molybdenum	ppm ASTM D5185m	0	0	0
Manganese	ppm ASTM D5185m	<1	<1	1
Magnesium	ppm ASTM D5185m 90	26	61	50
Calcium	ppm ASTM D5185m 2	0	<1	5
Phosphorus	ppm ASTM D5185m	3	3	<1
Zinc	ppm ASTM D5185m	5	13	16
Sulfur	ppm ASTM D5185m	21230	16706	5572

CONTAMINANTS

method	limit/base	current	history1	history2
Silicon	ppm ASTM D5185m >25	0	0	<1
Sodium	ppm ASTM D5185m	2	15	3
Potassium	ppm ASTM D5185m >20	<1	2	1
Water	% ASTM D6304 >0.05	▲ 0.210	0.017	▲ 0.291
ppm Water	ppm ASTM D6304 >500	▲ 2100	175.6	▲ 2910

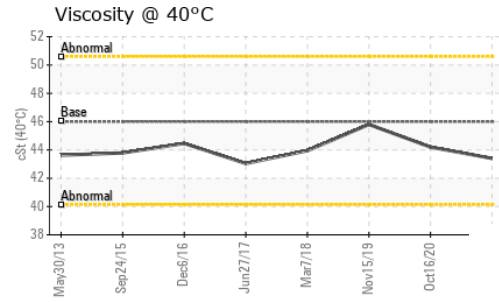
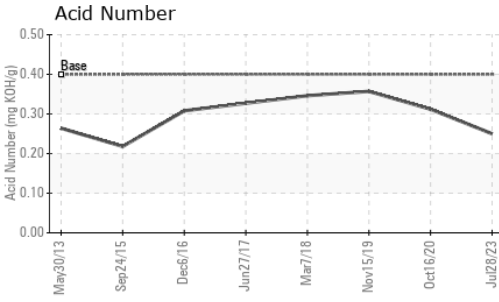
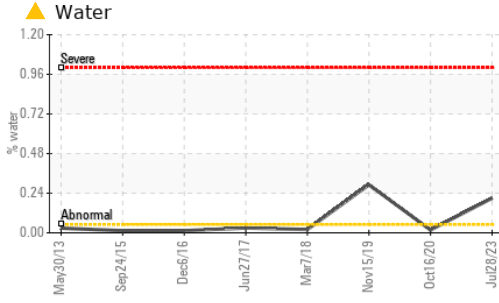
FLUID CLEANLINESS

method	limit/base	current	history1	history2
Particles >4µm	ASTM D7647	---	16675	7551
Particles >6µm	ASTM D7647 >1300	---	▲ 6437	▲ 4113
Particles >14µm	ASTM D7647 >80	---	▲ 772	▲ 700
Particles >21µm	ASTM D7647 >20	---	▲ 201	▲ 236
Particles >38µm	ASTM D7647 >4	---	▲ 7	▲ 36
Particles >71µm	ASTM D7647 >3	---	2	3
Oil Cleanliness	ISO 4406 (c) >--/17/13	---	▲ 20/17	▲ 19/17

FLUID DEGRADATION

method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g ASTM D8045 0.4	0.25	0.312	0.357

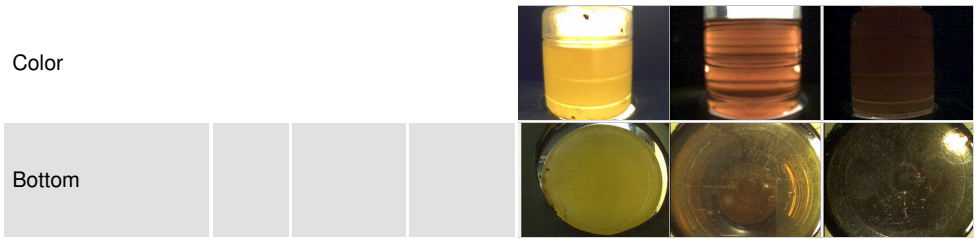
OIL ANALYSIS REPORT



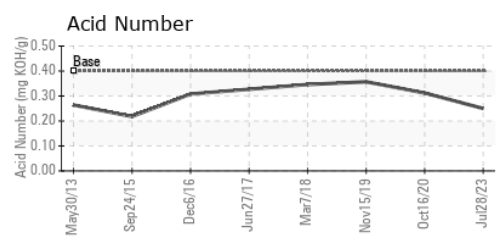
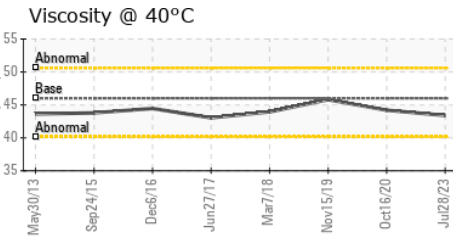
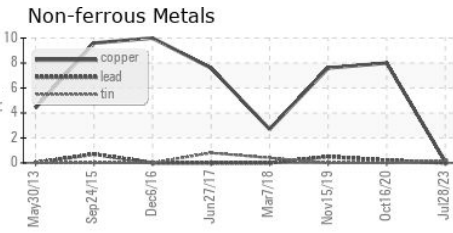
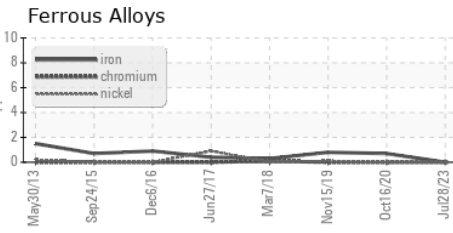
VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE
Debris	scalar	*Visual	▲ MODER	NONE	LIGHT
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE
Appearance	scalar	*Visual	▲ HAZY	NORML	▲ LAYRD
Odor	scalar	*Visual	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>0.05	▲ 0.2%	▲ 0.2%
Free Water	scalar	*Visual		▲ 1.0	▲ 5.0

FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445 46	43.4	44.2	45.8

SAMPLE IMAGES	method	limit/base	current	history1	history2
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GRAPHS



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : KCPA004945 **Received** : 14 Aug 2023
Lab Number : 05924313 **Diagnosed** : 16 Aug 2023
Unique Number : 10604260 **Diagnostician** : Don Baldrige
Test Package : IND 2 (Additional Tests: KF, PrtCount)

CABINETS BY KING
 1107 E BANNISTER
 KANSAS CITY, MO
 US 64131
 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: