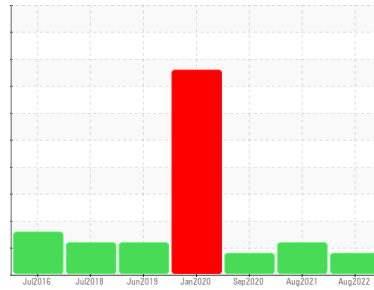


PROBLEM SUMMARY

Sample Rating Trend



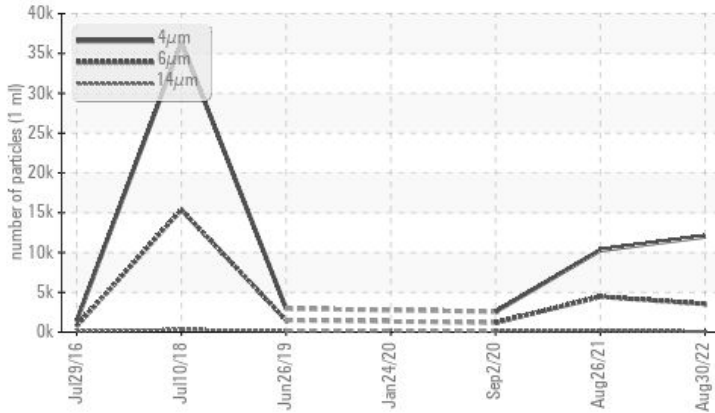
ISO



Machine Id
KAESER SK 15T 5363735 (S/N 1587)
Component
Compressor
Fluid
KAESER SIGMA (OEM) S-460 (--- QTS)

COMPONENT CONDITION SUMMARY

▲ Particle Trend



RECOMMENDATION

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

PROBLEMATIC TEST RESULTS

Sample Status		ABNORMAL	ABNORMAL	ATTENTION
Particles >6µm	ASTM D7647 >1300	▲ 3534	▲ 4452	1181
Oil Cleanliness	ISO 4406 (c) >17/13	▲ 19/13	▲ 19/15	▲ 17/14

Customer Id: EXHTUC
Sample No.: KCP37278
Lab Number: 05635091
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

26 Aug 2021 Diag: Jonathan Hester

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](#)



02 Sep 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 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](#)



24 Jan 2020 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. 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. Excessive free water present. There is a light 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. The condition of the oil is suitable for further service.

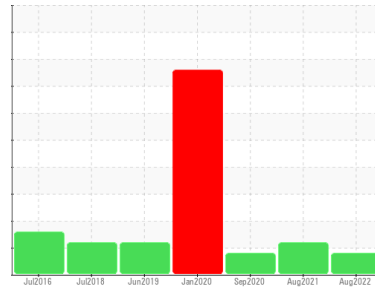
[view report](#)



Machine Id
KAESER SK 15T 5363735 (S/N 1587)

Component
Compressor

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



DIAGNOSIS

Recommendation

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

Wear

All component wear rates are normal.

Contamination

There is a high amount of silt (particulates < 14 microns in size) 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		KCP37278	KCP42427	KCP24942
Sample Date		30 Aug 2022	26 Aug 2021	02 Sep 2020
Machine Age	hrs	18450	15971	14445
Oil Age	hrs	2479	1500	3100
Oil Changed		Changed	Changed	Changed
Sample Status		ABNORMAL	ABNORMAL	ATTENTION

WEAR METALS

method	limit/base	current	history 1	history 2
Iron	ppm ASTM D5185m >50	<1	<1	0
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	0	0
Aluminum	ppm ASTM D5185m >10	<1	<1	0
Lead	ppm ASTM D5185m >10	0	0	<1
Copper	ppm ASTM D5185m >50	4	2	11
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	0	0

ADDITIVES

method	limit/base	current	history 1	history 2
Boron	ppm ASTM D5185m	0	600	1
Barium	ppm ASTM D5185m 90	0	0	0
Molybdenum	ppm ASTM D5185m	0	0	0
Manganese	ppm ASTM D5185m	0	0	<1
Magnesium	ppm ASTM D5185m 90	36	51	25
Calcium	ppm ASTM D5185m 2	0	0	0
Phosphorus	ppm ASTM D5185m	2	0	0
Zinc	ppm ASTM D5185m	9	2	24
Sulfur	ppm ASTM D5185m	16194	16167	17468

CONTAMINANTS

method	limit/base	current	history 1	history 2
Silicon	ppm ASTM D5185m >25	0	0	0
Sodium	ppm ASTM D5185m	17	16	11
Potassium	ppm ASTM D5185m >20	0	<1	3
Water	% ASTM D6304 >0.05	0.032	0.022	0.019
ppm Water	ppm ASTM D6304 >500	322.9	226.2	198.1

FLUID CLEANLINESS

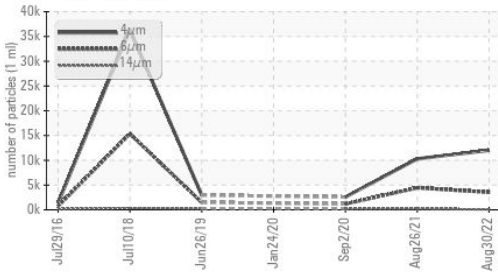
method	limit/base	current	history 1	history 2
Particles >4µm	ASTM D7647	12011	10302	2581
Particles >6µm	ASTM D7647 >1300	▲ 3534	▲ 4452	1181
Particles >14µm	ASTM D7647 >80	74	▲ 187	▲ 137
Particles >21µm	ASTM D7647 >20	11	▲ 28	▲ 32
Particles >38µm	ASTM D7647 >4	0	1	2
Particles >71µm	ASTM D7647 >3	0	0	0
Oil Cleanliness	ISO 4406 (c) >17/13	▲ 19/13	▲ 19/15	▲ 17/14

FLUID DEGRADATION

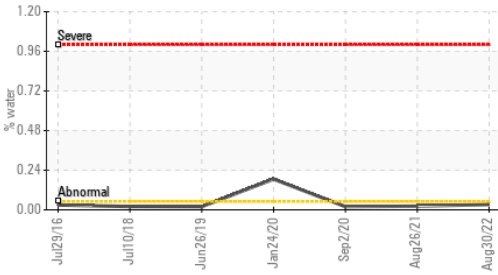
method	limit/base	current	history 1	history 2
Acid Number (AN)	mg KOH/g ASTM D8045 0.4	0.30	0.281	0.304

OIL ANALYSIS REPORT

▲ Particle Trend



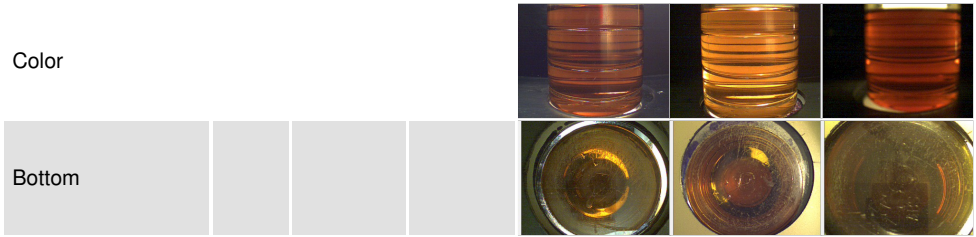
Water



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	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

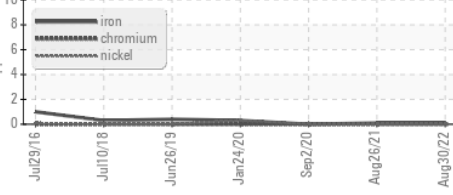
FLUID PROPERTIES	method	limit/base	current	history 1	history 2
Visc @ 40°C	cSt	ASTM D445 46	44.0	44.0	44.0

SAMPLE IMAGES	method	limit/base	current	history 1	history 2
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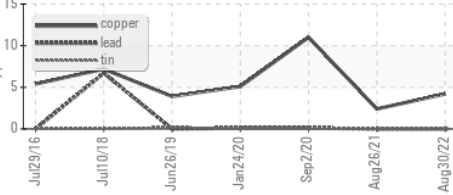


GRAPHS

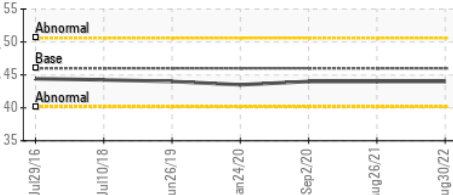
Ferrous Alloys



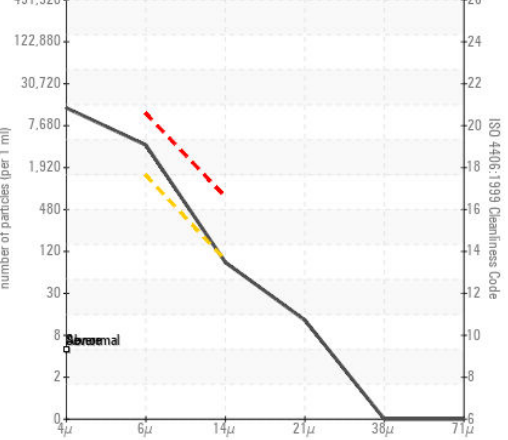
Non-ferrous Metals



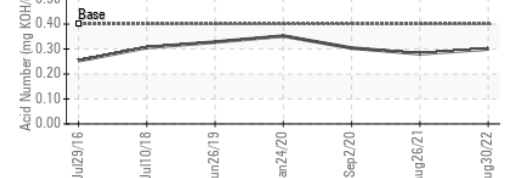
Viscosity @ 40°C



▲ Particle Count



Acid Number



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : KCP37278 **Received** : 06 Sep 2022
Lab Number : 05635091 **Diagnosed** : 08 Sep 2022
Unique Number : 10124621 **Diagnostician** : Don Baldrige
Test Package : IND 2 (Additional Tests: KF, PrtCount)

EXHIBITUS
 5361 ROYAL WOODS PKWY
 TUCKER, GA
 USA 30084
 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: