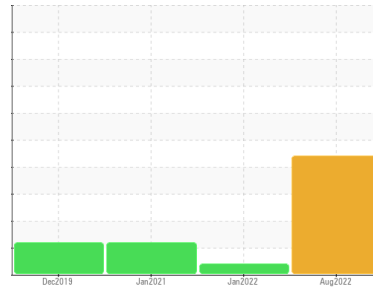


PROBLEM SUMMARY

Sample Rating Trend

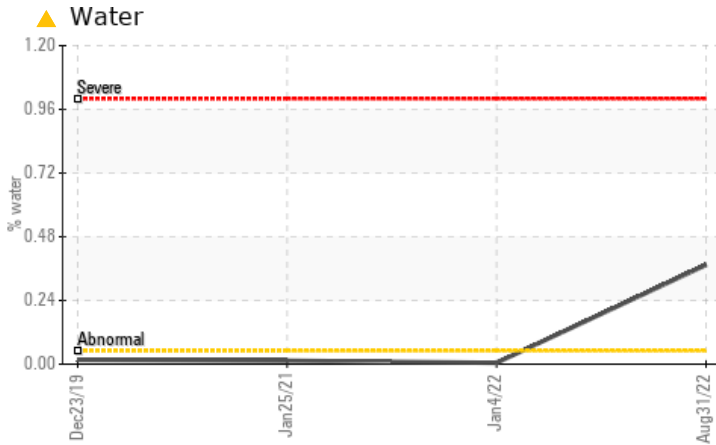


WATER



Machine Id
KAESER SFC 15 6621113 (S/N 1012)
Component
Compressor
Fluid
KAESER SIGMA (OEM) S-460 (--- GAL)

COMPONENT CONDITION SUMMARY



RECOMMENDATION

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. 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	ABNORMAL	ATTENTION
Water	%	ASTM D6304	>0.05	▲ 0.374	0.005	0.013
ppm Water	ppm	ASTM D6304	>500	▲ 3740	51.9	133.1
Debris	scalar	*Visual	NONE	▲ MODER	▲ MODER	NONE
Appearance	scalar	*Visual	NORML	▲ HAZY	NORML	NORML
Free Water	scalar	*Visual		▲ 1.0	NEG	NEG

Customer Id: SOFBED
Sample No.: KCP50541
Lab Number: 05637145
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
Alert	---	---	?	We were unable to perform a particle count due to a high concentration of particles present in this sample.

HISTORICAL DIAGNOSIS

04 Jan 2022 Diag: Don Baldrige

VIS DEBRIS



No corrective action is recommended at this time. 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. 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 acceptable for the time in service.

[view report](#)



25 Jan 2021 Diag: Don Baldrige

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](#)



23 Dec 2019 Diag: Doug Bogart

ISO



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. 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](#)



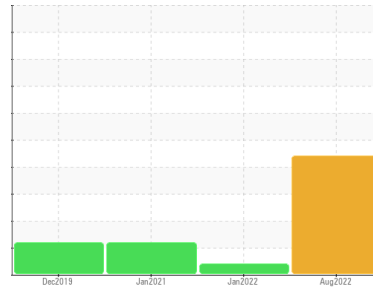
Machine Id
KAESER SFC 15 6621113 (S/N 1012)

Component

Compressor

Fluid

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



DIAGNOSIS

▲ Recommendation

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. 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. There is a light concentration of water present in the oil. Free water present.

Fluid Condition

The AN level is acceptable for this fluid. The condition of the oil is acceptable for the time in service.

SAMPLE INFORMATION

	method	limit/base	current	history 1	history 2
Sample Number			KCP50541	KCP43389	KCP27810
Sample Date			31 Aug 2022	04 Jan 2022	25 Jan 2021
Machine Age	hrs		18785	17173	14812
Oil Age	hrs		3973	2361	6397
Oil Changed			Not Changed	Not Changd	Changed
Sample Status			ABNORMAL	ABNORMAL	ATTENTION

WEAR METALS

	method	limit/base	current	history 1	history 2
Iron	ppm ASTM D5185m	>50	12	<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	0	0
Aluminum	ppm ASTM D5185m	>10	0	<1	0
Lead	ppm ASTM D5185m	>10	0	0	0
Copper	ppm ASTM D5185m	>50	12	5	7
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		0	0	0
Barium	ppm ASTM D5185m	90	0	<1	4
Molybdenum	ppm ASTM D5185m		0	0	0
Manganese	ppm ASTM D5185m		<1	<1	<1
Magnesium	ppm ASTM D5185m	90	16	37	48
Calcium	ppm ASTM D5185m	2	<1	0	0
Phosphorus	ppm ASTM D5185m		4	2	11
Zinc	ppm ASTM D5185m		17	20	0
Sulfur	ppm ASTM D5185m		17559	16838	16879

CONTAMINANTS

	method	limit/base	current	history 1	history 2
Silicon	ppm ASTM D5185m	>25	<1	1	0
Sodium	ppm ASTM D5185m		5	17	20
Potassium	ppm ASTM D5185m	>20	0	0	2
Water	% ASTM D6304	>0.05	▲ 0.374	0.005	0.013
ppm Water	ppm ASTM D6304	>500	▲ 3740	51.9	133.1

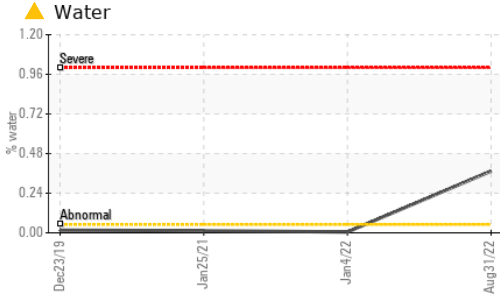
FLUID CLEANLINESS

	method	limit/base	current	history 1	history 2
Particles >4µm	ASTM D7647		---	---	4278
Particles >6µm	ASTM D7647	>1300	---	---	▲ 1473
Particles >14µm	ASTM D7647	>80	---	---	▲ 100
Particles >21µm	ASTM D7647	>20	---	---	▲ 28
Particles >38µm	ASTM D7647	>4	---	---	2
Particles >71µm	ASTM D7647	>3	---	---	0
Oil Cleanliness	ISO 4406 (c)	>--/17/13	---	---	▲ 18/14

FLUID DEGRADATION

	method	limit/base	current	history 1	history 2
Acid Number (AN)	mg KOH/g ASTM D8045	0.4	0.32	0.35	0.324

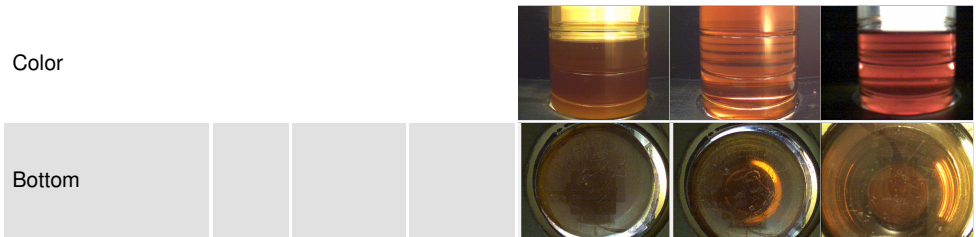
OIL ANALYSIS REPORT



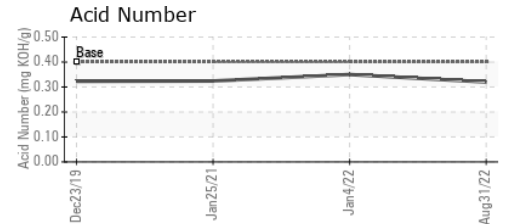
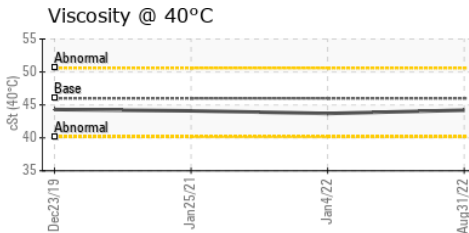
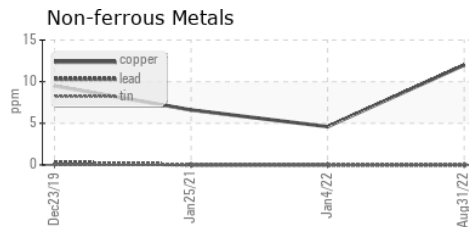
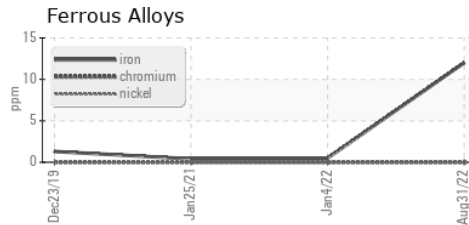
VISUAL	method	limit/base	current	history 1	history 2
White Metal	scalar	*Visual	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	▲ MODER	▲ MODER
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	▲ HAZY	NORML
Odor	scalar	*Visual	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>0.05	0.2%	NEG
Free Water	scalar	*Visual		▲ 1.0	NEG

FLUID PROPERTIES	method	limit/base	current	history 1	history 2
Visc @ 40°C	cSt	ASTM D445	46	44.2	43.7

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. : KCP50541 **Received** : 08 Sep 2022
Lab Number : 05637145 **Diagnosed** : 09 Sep 2022
Unique Number : 10126675 **Diagnostician** : Doug Bogart
Test Package : IND 2 (Additional Tests: KF, PrtCount)

SOFT ROBOTICS INC
 32 CROSBY DR
 BEDFORD, MA
 USA 01730
 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: