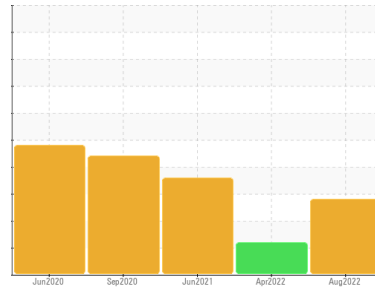


PROBLEM SUMMARY

Sample Rating Trend



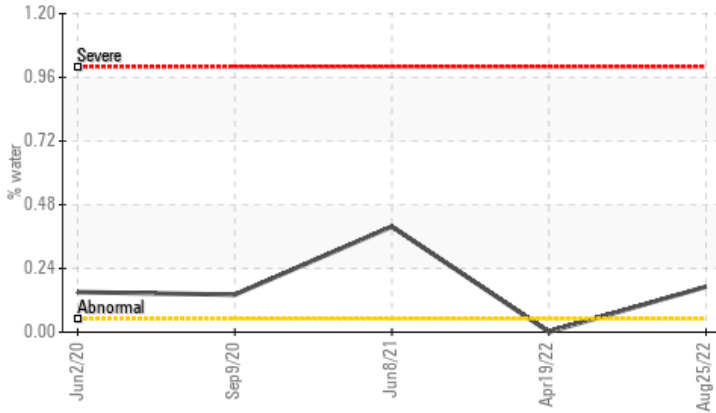
WATER



Machine Id
KAESER AIRTOWER 7.5C 6429847 (S/N 1834)
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	ABNORMAL
Water	%	ASTM D6304	>0.05	▲ 0.171	0.001	▲ 0.398
ppm Water	ppm	ASTM D6304	>500	▲ 1710	2.9	▲ 3980
Debris	scalar	*Visual	NONE	▲ MODER	LIGHT	▲ MODER
Appearance	scalar	*Visual	NORML	▲ HAZY	NORML	NORML

Customer Id: VALFAY
Sample No.: KCP30929
Lab Number: 05635002
Test Package: IND 2



To manage this report scan the QR code

To discuss the diagnosis or test data:
Jonathan Hester +1 919-379-4092 x4092
jhester@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

19 Apr 2022 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



08 Jun 2021 Diag: Angela Borella

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. Moderate concentration of visible dirt/debris present in the oil. There is a light concentration of water present in the oil. Free water present. The AN level is acceptable for this fluid.

view report



09 Sep 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. Moderate concentration of visible dirt/debris present in the oil. There is a light concentration of water present in the oil. Free water present. The AN level is acceptable for this fluid.

view report



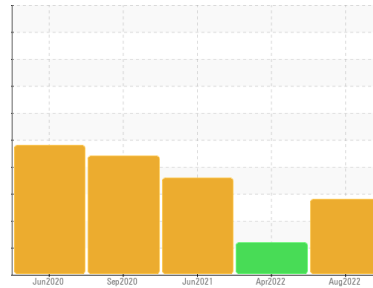
Machine Id
KAESER AIRTOWER 7.5C 6429847 (S/N 1834)

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

Appearance is hazy. There is a light concentration of water present in the oil. 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			KCP30929	KCP45604	KCP32840
Sample Date			25 Aug 2022	19 Apr 2022	08 Jun 2021
Machine Age	hrs		2835	1820	1401
Oil Age	hrs		1000	183	0
Oil Changed			Not Changed	Changed	Not Changed
Sample Status			ABNORMAL	ABNORMAL	ABNORMAL

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	<1	0
Copper	ppm ASTM D5185m	>50	7	13	13
Tin	ppm ASTM D5185m	>10	0	0	0
Antimony	ppm ASTM D5185m		---	---	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	0	0
Molybdenum	ppm ASTM D5185m		0	0	0
Manganese	ppm ASTM D5185m		<1	0	0
Magnesium	ppm ASTM D5185m	90	18	<1	<1
Calcium	ppm ASTM D5185m	2	0	0	0
Phosphorus	ppm ASTM D5185m		3	1	13
Zinc	ppm ASTM D5185m		9	4	0
Sulfur	ppm ASTM D5185m		18253	14393	13823

CONTAMINANTS

	method	limit/base	current	history 1	history 2
Silicon	ppm ASTM D5185m	>25	0	<1	<1
Sodium	ppm ASTM D5185m		9	0	0
Potassium	ppm ASTM D5185m	>20	0	<1	0
Water	% ASTM D6304	>0.05	▲ 0.171	0.001	▲ 0.398
ppm Water	ppm ASTM D6304	>500	▲ 1710	2.9	▲ 3980

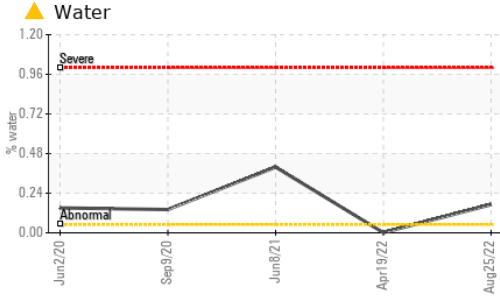
FLUID CLEANLINESS

	method	limit/base	current	history 1	history 2
Particles >4µm	ASTM D7647		---	17794	---
Particles >6µm	ASTM D7647	>1300	---	▲ 4085	---
Particles >14µm	ASTM D7647	>80	---	▲ 308	---
Particles >21µm	ASTM D7647	>20	---	▲ 71	---
Particles >38µm	ASTM D7647	>4	---	1	---
Particles >71µm	ASTM D7647	>3	---	0	---
Oil Cleanliness	ISO 4406 (c)	>17/13	---	▲ 19/15	---

FLUID DEGRADATION

	method	limit/base	current	history 1	history 2
Acid Number (AN)	mg KOH/g ASTM D8045	0.4	0.25	0.15	0.286

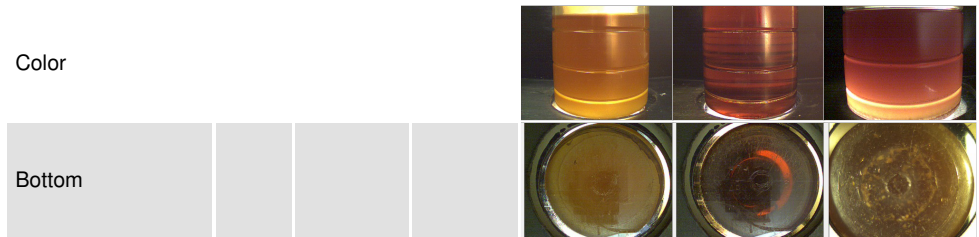
OIL ANALYSIS REPORT



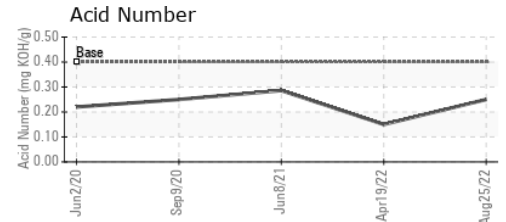
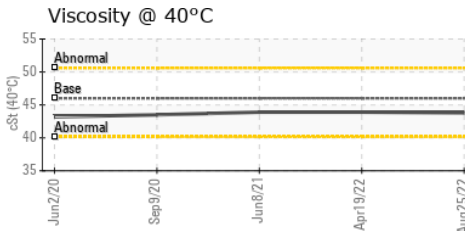
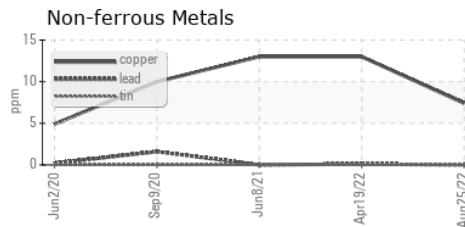
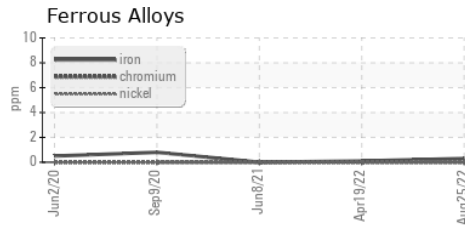
VISUAL	method	limit/base	current	history 1	history 2
White Metal	scalar	*Visual	NONE	NONE	LIGHT
Yellow Metal	scalar	*Visual	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	▲ MODER	LIGHT
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE
Appearance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

FLUID PROPERTIES	method	limit/base	current	history 1	history 2
Visc @ 40°C	cSt	ASTM D445	46	43.8	43.9

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. : KCP30929 **Received** : 06 Sep 2022
Lab Number : 05635002 **Diagnosed** : 08 Sep 2022
Unique Number : 10124532 **Diagnostician** : Jonathan Hester
Test Package : IND 2 (Additional Tests: KF, PrtCount)

VALLEY PROTEINS
 1309 INDUSTRIAL DR
 FAYETTEVILLE, NC
 USA 28301
 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: