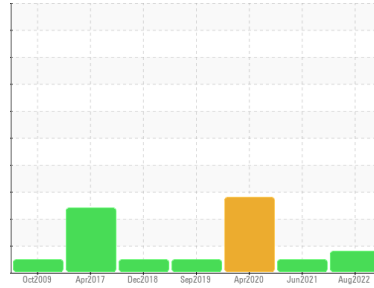


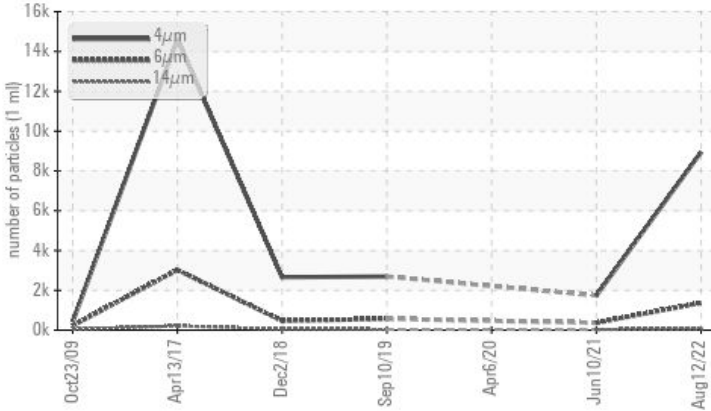


Machine Id
KAESER BSD 50 2471930 (S/N 1210)
Component
Compressor
Fluid
KAESER SIGMA (OEM) S-460 (--- GAL)



COMPONENT CONDITION SUMMARY

▲ Particle Trend



RECOMMENDATION

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.

PROBLEMATIC TEST RESULTS

Sample Status		ATTENTION	NORMAL	ABNORMAL
Particles >6µm	ASTM D7647 >1300	▲ 1368	367	---
Oil Cleanliness	ISO 4406 (c) >--/17/13	▲ 20/18/13	16/12	---

Customer Id: AVIIRV
Sample No.: KCP48282
Lab Number: 05626816
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

There are no recommended actions for this sample.

HISTORICAL DIAGNOSIS

10 Jun 2021 Diag: Angela Borella

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. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

view report



06 Apr 2020 Diag: Doug Bogart

WATER



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. 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. The AN level is at the top-end of the recommended limit. The condition of the oil is suitable for further service.

view report



10 Sep 2019 Diag: Don Baldrige

NORMAL



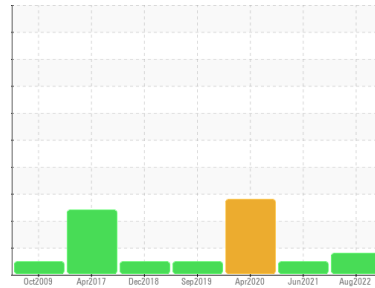
Resample at the next service interval to monitor. All component wear rates are normal. There is no indication of any contamination in the oil. The amount and size of particulates present in the system are acceptable. The AN level is acceptable for this fluid. The condition of the oil is suitable for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

view report



Machine Id
KAESER BSD 50 2471930 (S/N 1210)

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



DIAGNOSIS

Recommendation

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.

Wear

All component wear rates are normal.

Contamination

There is a moderate 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			KCP48282	KCP35884	KCP26159
Sample Date			12 Aug 2022	10 Jun 2021	06 Apr 2020
Machine Age	hrs		77035	71523	65782
Oil Age	hrs		2777	1171	1335
Oil Changed			Not Changed	Changed	Not Changed
Sample Status			ATTENTION	NORMAL	ABNORMAL

WEAR METALS

	method	limit/base	current	history 1	history 2
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	0	0	0
Aluminum	ppm ASTM D5185m	>10	2	0	<1
Lead	ppm ASTM D5185m	>10	0	<1	<1
Copper	ppm ASTM D5185m	>50	3	3	2
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	<1	<1
Barium	ppm ASTM D5185m	90	17	17	22
Molybdenum	ppm ASTM D5185m		0	0	<1
Manganese	ppm ASTM D5185m		0	0	0
Magnesium	ppm ASTM D5185m	90	72	72	50
Calcium	ppm ASTM D5185m	2	1	2	2
Phosphorus	ppm ASTM D5185m		6	2	4
Zinc	ppm ASTM D5185m		1	0	4
Sulfur	ppm ASTM D5185m		18464	16892	16580

CONTAMINANTS

	method	limit/base	current	history 1	history 2
Silicon	ppm ASTM D5185m	>25	<1	<1	<1
Sodium	ppm ASTM D5185m		18	21	11
Potassium	ppm ASTM D5185m	>20	<1	3	5
Water	% ASTM D6304	>0.05	0.024	0.037	▲ 0.216
ppm Water	ppm ASTM D6304	>500	246.4	372.3	▲ 2160

FLUID CLEANLINESS

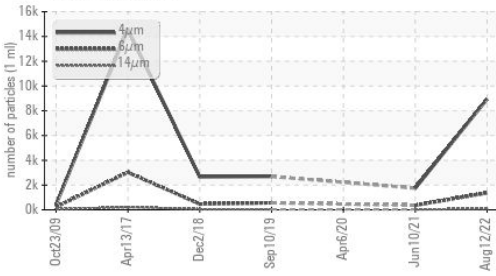
	method	limit/base	current	history 1	history 2
Particles >4µm	ASTM D7647		8940	1739	---
Particles >6µm	ASTM D7647	>1300	▲ 1368	367	---
Particles >14µm	ASTM D7647	>80	69	29	---
Particles >21µm	ASTM D7647	>20	15	9	---
Particles >38µm	ASTM D7647	>4	1	0	---
Particles >71µm	ASTM D7647	>3	0	0	---
Oil Cleanliness	ISO 4406 (c)	>--/17/13	▲ 20/18/13	16/12	---

FLUID DEGRADATION

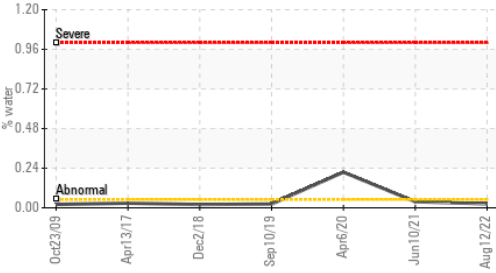
	method	limit/base	current	history 1	history 2
Acid Number (AN)	mg KOH/g ASTM D8045	0.4	0.39	0.347	0.303

OIL ANALYSIS REPORT

▲ Particle Trend



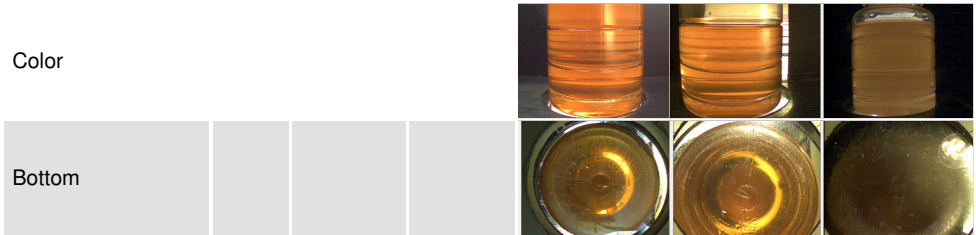
Water



PARAMETER	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	▲ MODER
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	▲ HAZY
Odor	scalar	*Visual	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>0.05	NEG	0.2%
Free Water	scalar	*Visual		NEG	NEG

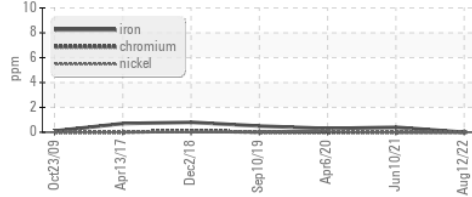
FLUID PROPERTIES	method	limit/base	current	history 1	history 2
Visc @ 40°C	cSt	ASTM D445	46	45.0	44.2

SAMPLE IMAGES	method	limit/base	current	history 1	history 2
---------------	--------	------------	---------	-----------	-----------

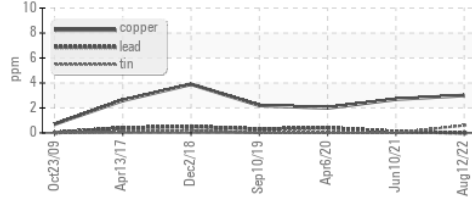


GRAPHS

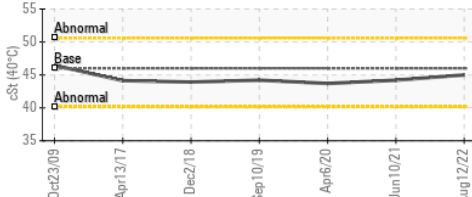
Ferrous Alloys



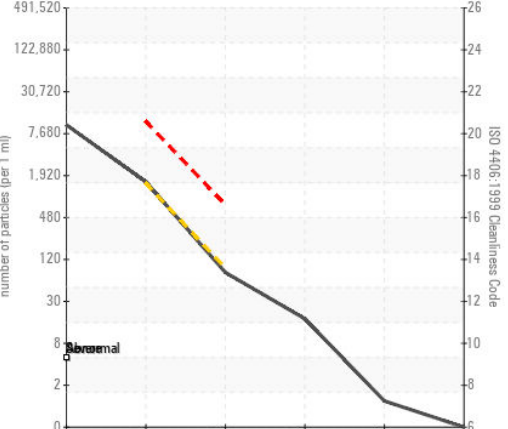
Non-ferrous Metals



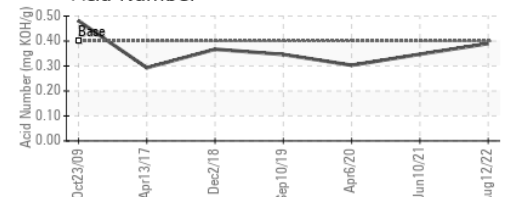
Viscosity @ 40°C



▲ Particle Count



Acid Number



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : KCP48282 **Received** : 25 Aug 2022
Lab Number : 05626816 **Diagnosed** : 26 Aug 2022
Unique Number : 10111337 **Diagnostician** : Doug Bogart
Test Package : IND 2 (Additional Tests: KF, PrtCount)

AVIALL
 2750 REGENT BLVD.
 IRVING, TX
 USA 75261
 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: