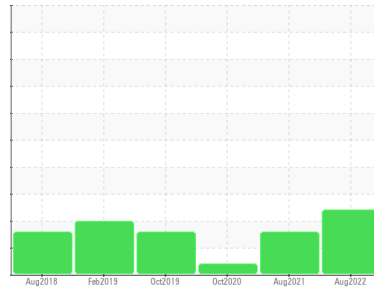


PROBLEM SUMMARY

Sample Rating Trend



ISO



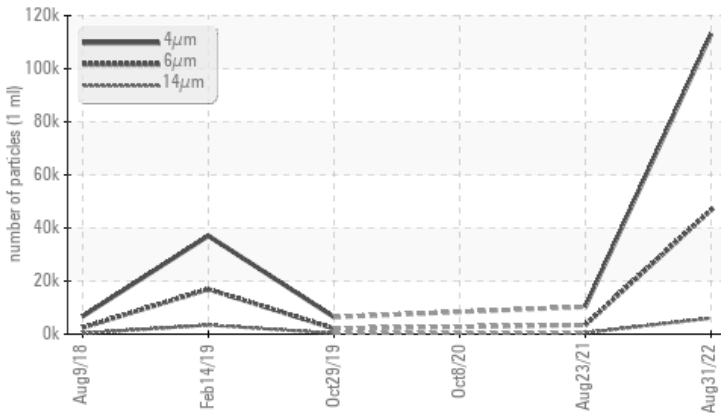
Machine Id
KAESER BSD 50 2984279 (S/N 1564)

Component
Compressor

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

COMPONENT CONDITION SUMMARY

▲ Particle Trend



RECOMMENDATION

The oil change at the time of sampling has been noted. We recommend you service the filters on this component. Resample at the next service interval to monitor.

PROBLEMATIC TEST RESULTS

Sample Status			ABNORMAL	ABNORMAL	ABNORMAL
Particles >6µm	ASTM D7647	>1300	▲ 46784	▲ 3444	---
Particles >14µm	ASTM D7647	>80	▲ 6020	▲ 501	---
Particles >21µm	ASTM D7647	>20	▲ 1867	▲ 185	---
Particles >38µm	ASTM D7647	>4	▲ 320	▲ 8	---
Particles >71µm	ASTM D7647	>3	▲ 19	0	---
Oil Cleanliness	ISO 4406 (c)	>--/17/13	▲ 24/23/20	▲ 19/16	---

Customer Id: AIRWAU
Sample No.: KCP50520
Lab Number: 05639119
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 Filter	---	---	?	We recommend you service the filters on this component.

HISTORICAL DIAGNOSIS

23 Aug 2021 Diag: Don Baldrige

ISO



No corrective action is recommended at this time. 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 Oct 2020 Diag: Angela Borella

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 suitable for further service.

view report



29 Oct 2019 Diag: Don Baldrige

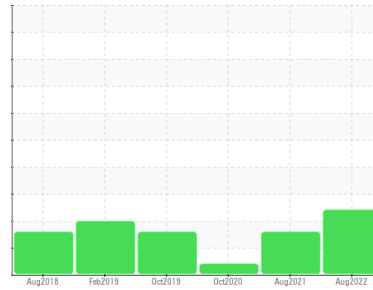
ISO



No corrective action is recommended at this time. 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





Machine Id
KAESER BSD 50 2984279 (S/N 1564)

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

DIAGNOSIS

Recommendation

The oil change at the time of sampling has been noted. We recommend you service the filters on this component. Resample at the next service interval to monitor.

Wear

All component wear rates are normal.

Contamination

There is a high amount of particulates 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			KCP50520	KCP37795	KCP31626
Sample Date			31 Aug 2022	23 Aug 2021	08 Oct 2020
Machine Age	hrs		44610	41453	39421
Oil Age	hrs		3000	3000	3000
Oil Changed			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	0	<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	<1	0	<1
Aluminum	ppm ASTM D5185m	>10	<1	<1	0
Lead	ppm ASTM D5185m	>10	0	0	0
Copper	ppm ASTM D5185m	>50	3	6	4
Tin	ppm ASTM D5185m	>10	<1	0	<1
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	<1	0	3
Molybdenum	ppm ASTM D5185m		0	0	0
Manganese	ppm ASTM D5185m		<1	0	<1
Magnesium	ppm ASTM D5185m	90	37	12	38
Calcium	ppm ASTM D5185m	2	<1	0	0
Phosphorus	ppm ASTM D5185m		12	0	0
Zinc	ppm ASTM D5185m		11	0	2
Sulfur	ppm ASTM D5185m		18752	16635	17047

CONTAMINANTS

	method	limit/base	current	history 1	history 2
Silicon	ppm ASTM D5185m	>25	<1	<1	0
Sodium	ppm ASTM D5185m		8	0	3
Potassium	ppm ASTM D5185m	>20	1	0	1
Water	% ASTM D6304	>0.05	0.016	0.010	0.012
ppm Water	ppm ASTM D6304	>500	168.9	101.2	122.8

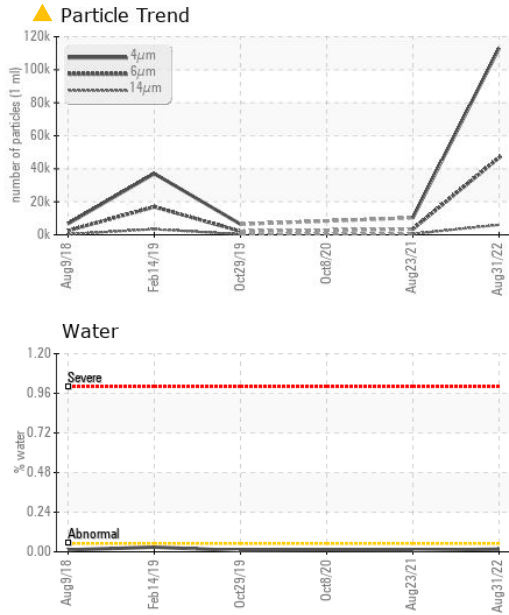
FLUID CLEANLINESS

	method	limit/base	current	history 1	history 2
Particles >4µm	ASTM D7647		113071	10295	---
Particles >6µm	ASTM D7647	>1300	▲ 46784	▲ 3444	---
Particles >14µm	ASTM D7647	>80	▲ 6020	▲ 501	---
Particles >21µm	ASTM D7647	>20	▲ 1867	▲ 185	---
Particles >38µm	ASTM D7647	>4	▲ 320	▲ 8	---
Particles >71µm	ASTM D7647	>3	▲ 19	0	---
Oil Cleanliness	ISO 4406 (c)	>--/17/13	▲ 24/23/20	▲ 19/16	---

FLUID DEGRADATION

	method	limit/base	current	history 1	history 2
Acid Number (AN)	mg KOH/g ASTM D8045	0.4	0.37	0.374	0.399

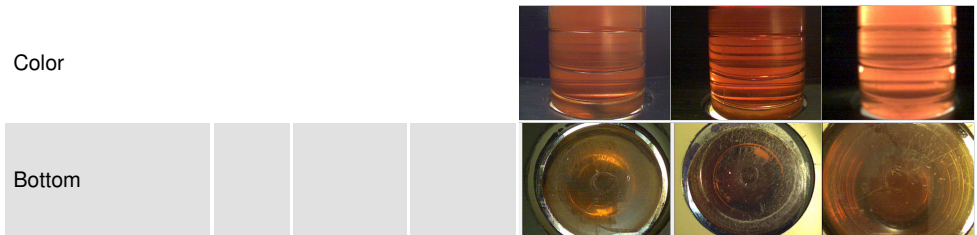
OIL ANALYSIS REPORT



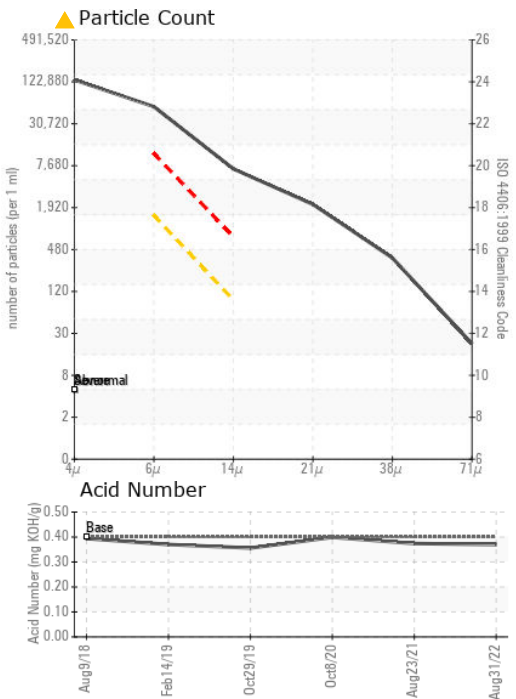
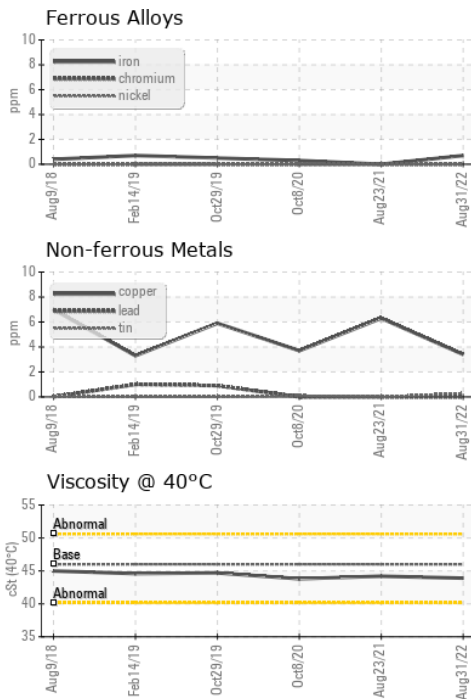
PARAMETER	method	limit/base	current	history 1	history 2
White Metal	scalar	*Visual	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	LIGHT	▲ MODER
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE
Appearance	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	43.9	44.2

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



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : KCP50520 **Received** : 12 Sep 2022
Lab Number : 05639119 **Diagnosed** : 14 Sep 2022
Unique Number : 10128649 **Diagnostician** : Don Baldrige
Test Package : IND 2 (Additional Tests: KF, PrtCount)

AIRGAS
 401 SENTRY DR
 WAUKESHA, WI
 USA 53186
 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)