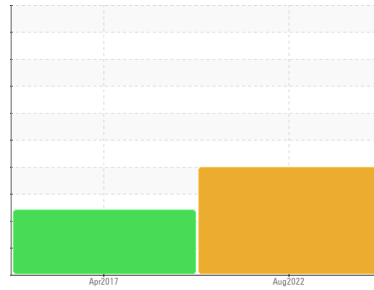


PROBLEM SUMMARY

Sample Rating Trend



WATER

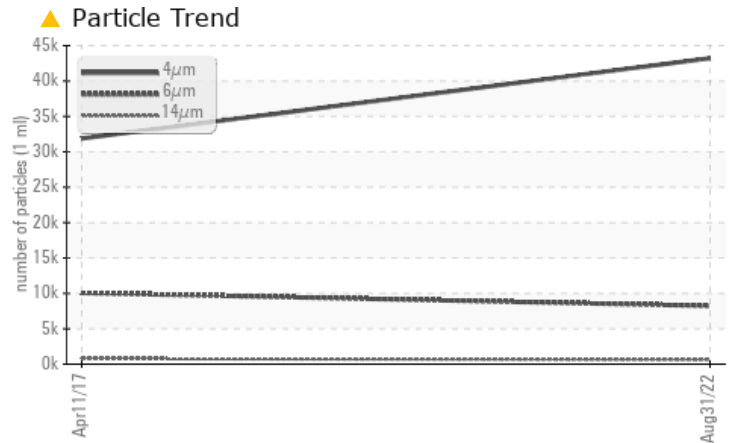
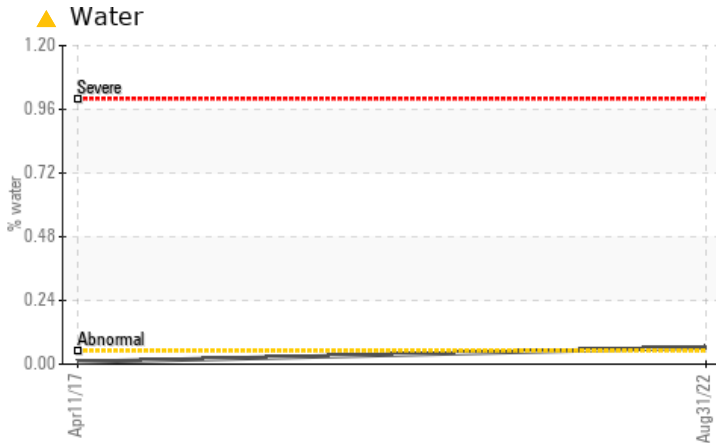


Machine Id
KAESER CS 90 1439524 (S/N 753410)

Component
Compressor
Fluid

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

COMPONENT CONDITION SUMMARY



RECOMMENDATION

Oil and filter change at the time of sampling has been noted. We recommend an early resample in 500 hours to monitor this condition.

PROBLEMATIC TEST RESULTS

Sample Status				ABNORMAL	ABNORMAL	---
Water	%	ASTM D6304	>0.05	▲ 0.063	0.008	---
ppm Water	ppm	ASTM D6304	>500	▲ 632.3	80	---
Particles >6µm		ASTM D7647	>1300	▲ 8222	▲ 10061	---
Particles >14µm		ASTM D7647	>80	▲ 626	▲ 770	---
Particles >21µm		ASTM D7647	>20	▲ 213	▲ 211	---
Particles >38µm		ASTM D7647	>4	▲ 18	▲ 31	---
Particles >71µm		ASTM D7647	>3	▲ 3	▲ 21	---
Oil Cleanliness		ISO 4406 (c)	>--/17/13	▲ 23/20/16	▲ 21/17	---

Customer Id: AMGBALCT
Sample No.: KCP50294
Lab Number: 05638105
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
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

11 Apr 2017 Diag: Don Baldrige

ISO



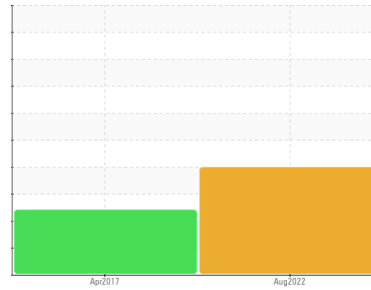
Oil and filter change at the time of sampling has been noted. Resample at the next service interval to monitor. All component wear rates are normal. There is a high amount of particulates present in the oil. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

view report



OIL ANALYSIS REPORT

Sample Rating Trend



WATER



Machine Id
KAESER CS 90 1439524 (S/N 753410)

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

DIAGNOSIS

▲ Recommendation

Oil and filter change at the time of sampling has been noted. We recommend an early resample in 500 hours to monitor this condition.

Wear

All component wear rates are normal.

▲ Contamination

There is a high amount of particulates present in the oil. There is a light concentration of water 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			KCP50294	KCP71674	---
Sample Date			31 Aug 2022	11 Apr 2017	---
Machine Age	hrs		123447	105993	---
Oil Age	hrs		17454	0	---
Oil Changed			Changed	Changed	---
Sample Status			ABNORMAL	ABNORMAL	---

WEAR METALS

	method	limit/base	current	history 1	history 2
Iron	ppm ASTM D5185m	>50	1	<1	---
Chromium	ppm ASTM D5185m	>10	0	0	---
Nickel	ppm ASTM D5185m	>3	2	0	---
Titanium	ppm ASTM D5185m	>3	0	0	---
Silver	ppm ASTM D5185m	>2	0	0	---
Aluminum	ppm ASTM D5185m	>10	0	0	---
Lead	ppm ASTM D5185m	>10	<1	0	---
Copper	ppm ASTM D5185m	>50	3	5	---
Tin	ppm ASTM D5185m	>10	<1	0	---
Antimony	ppm ASTM D5185m		---	0	---
Vanadium	ppm ASTM D5185m		0	0	---
Cadmium	ppm ASTM D5185m		0	0	---

ADDITIVES

	method	limit/base	current	history 1	history 2
Boron	ppm ASTM D5185m		<1	0	---
Barium	ppm ASTM D5185m	90	2	0	---
Molybdenum	ppm ASTM D5185m		0	0	---
Manganese	ppm ASTM D5185m		<1	0	---
Magnesium	ppm ASTM D5185m	90	47	0	---
Calcium	ppm ASTM D5185m	2	0	0	---
Phosphorus	ppm ASTM D5185m		2	0	---
Zinc	ppm ASTM D5185m		24	0	---
Sulfur	ppm ASTM D5185m		17185	4816	---

CONTAMINANTS

	method	limit/base	current	history 1	history 2
Silicon	ppm ASTM D5185m	>25	<1	1	---
Sodium	ppm ASTM D5185m		8	<1	---
Potassium	ppm ASTM D5185m	>20	1	<1	---
Water	% ASTM D6304	>0.05	▲ 0.063	0.008	---
ppm Water	ppm ASTM D6304	>500	▲ 632.3	80	---

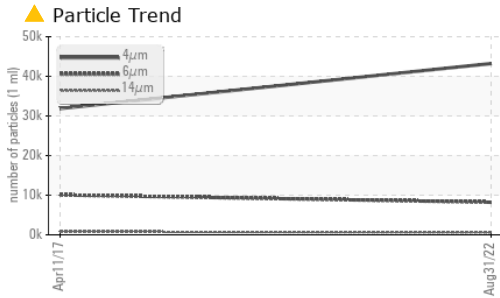
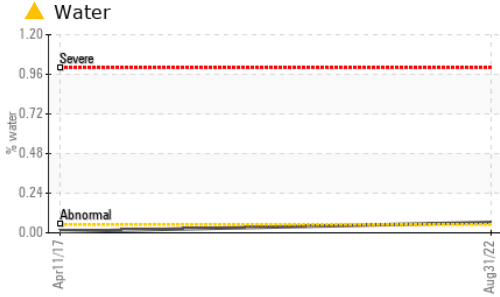
FLUID CLEANLINESS

	method	limit/base	current	history 1	history 2
Particles >4µm	ASTM D7647		43222	31879	---
Particles >6µm	ASTM D7647	>1300	▲ 8222	▲ 10061	---
Particles >14µm	ASTM D7647	>80	▲ 626	▲ 770	---
Particles >21µm	ASTM D7647	>20	▲ 213	▲ 211	---
Particles >38µm	ASTM D7647	>4	▲ 18	▲ 31	---
Particles >71µm	ASTM D7647	>3	▲ 3	▲ 21	---
Oil Cleanliness	ISO 4406 (c)	>--/17/13	▲ 23/20/16	▲ 21/17	---

FLUID DEGRADATION

	method	limit/base	current	history 1	history 2
Acid Number (AN)	mg KOH/g ASTM D8045	0.4	0.49	0.326	---

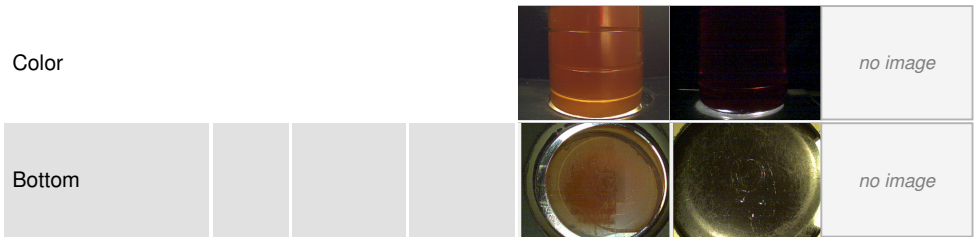
OIL ANALYSIS REPORT



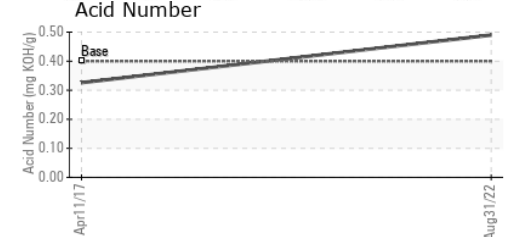
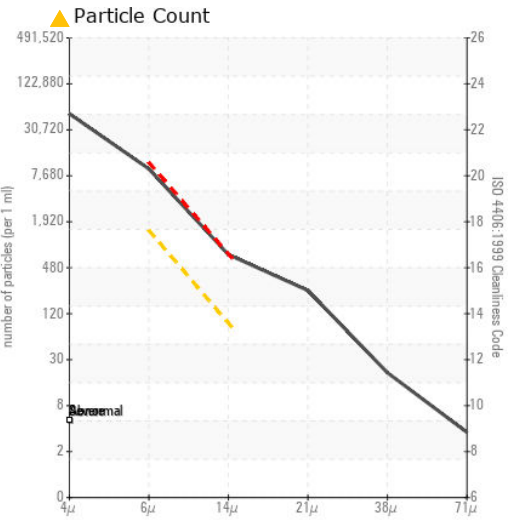
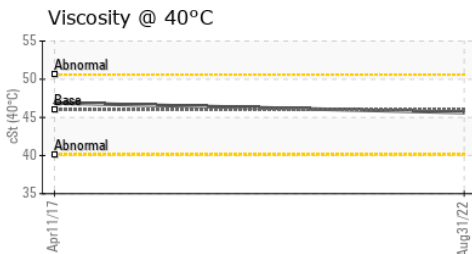
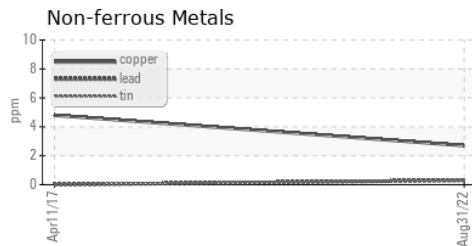
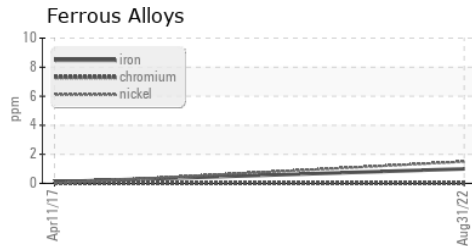
VISUAL	method	limit/base	current	history 1	history 2	
White Metal	scalar	*Visual	NONE	NONE	LIGHT	---
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	---
Precipitate	scalar	*Visual	NONE	NONE	NONE	---
Silt	scalar	*Visual	NONE	NONE	NONE	---
Debris	scalar	*Visual	NONE	LIGHT	LIGHT	---
Sand/Dirt	scalar	*Visual	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	45.63	46.9	---

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. : KCP50294 **Received** : 09 Sep 2022
Lab Number : 05638105 **Diagnosed** : 14 Sep 2022
Unique Number : 10127635 **Diagnostician** : Jonathan Hester
Test Package : IND 2 (Additional Tests: KF, PrtCount)

AMGRAPH PACKAGING
 90 PAPERMILL RD
 BAL TIC, CT
 USA 06330
 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: