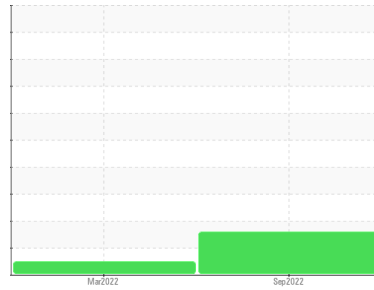


PROBLEM SUMMARY

Sample Rating Trend



ISO



Machine Id
KAESER AS 20 8008794 (S/N 1337)

Component
Compressor

Fluid
KAESER SIGMA (OEM) M-460 (--- QTS)

COMPONENT CONDITION SUMMARY

▲ Particle Trend



RECOMMENDATION

Oil and filter change at the time of sampling has been noted. Resample at the next service interval to monitor.

PROBLEMATIC TEST RESULTS

Sample Status			ABNORMAL	NORMAL	---
Particles >6µm	ASTM D7647	>1300	▲ 28269	---	---
Particles >14µm	ASTM D7647	>80	▲ 958	---	---
Particles >21µm	ASTM D7647	>20	▲ 70	---	---
Oil Cleanliness	ISO 4406 (c)	>--/17/13	▲ 24/22/17	---	---

Customer Id: MOTEARMO
Sample No.: KCP49340
Lab Number: 05648945
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

29 Mar 2022 Diag: Jonathan Hester

NORMAL



Resample at the next service interval to monitor. We were unable to perform a particle count on this sample. All component wear rates are normal. There is no indication of any contamination in the oil. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

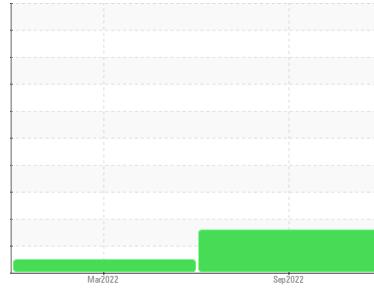
view report





Machine Id
KAESER AS 20 8008794 (S/N 1337)

Component
Compressor
Fluid
KAESER SIGMA (OEM) M-460 (--- QTS)



DIAGNOSIS

▲ Recommendation

Oil and 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 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			KCP49340	KCP44454	---
Sample Date			20 Sep 2022	29 Mar 2022	---
Machine Age	hrs		2386	1263	---
Oil Age	hrs		1300	1263	---
Oil Changed			Changed	Not Changd	---
Sample Status			ABNORMAL	NORMAL	---

WEAR METALS

	method	limit/base	current	history 1	history 2
Iron	ppm ASTM D5185m	>50	<1	0	---
Chromium	ppm ASTM D5185m	>10	0	0	---
Nickel	ppm ASTM D5185m	>3	0	0	---
Titanium	ppm ASTM D5185m	>3	0	0	---
Silver	ppm ASTM D5185m	>2	0	0	---
Aluminum	ppm ASTM D5185m	>10	0	<1	---
Lead	ppm ASTM D5185m	>10	<1	<1	---
Copper	ppm ASTM D5185m	>50	20	5	---
Tin	ppm ASTM D5185m	>10	0	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	0	0	0	---
Barium	ppm ASTM D5185m	90	0	0	---
Molybdenum	ppm ASTM D5185m	0	0	0	---
Manganese	ppm ASTM D5185m		0	0	---
Magnesium	ppm ASTM D5185m	100	3	37	---
Calcium	ppm ASTM D5185m	0	0	<1	---
Phosphorus	ppm ASTM D5185m	0	12	<1	---
Zinc	ppm ASTM D5185m	0	20	6	---
Sulfur	ppm ASTM D5185m	23500	20137	15045	---

CONTAMINANTS

	method	limit/base	current	history 1	history 2
Silicon	ppm ASTM D5185m	>25	1	2	---
Sodium	ppm ASTM D5185m		3	10	---
Potassium	ppm ASTM D5185m	>20	<1	2	---
Water	% ASTM D6304	>0.05	0.018	0.013	---
ppm Water	ppm ASTM D6304	>500	185.4	136.5	---

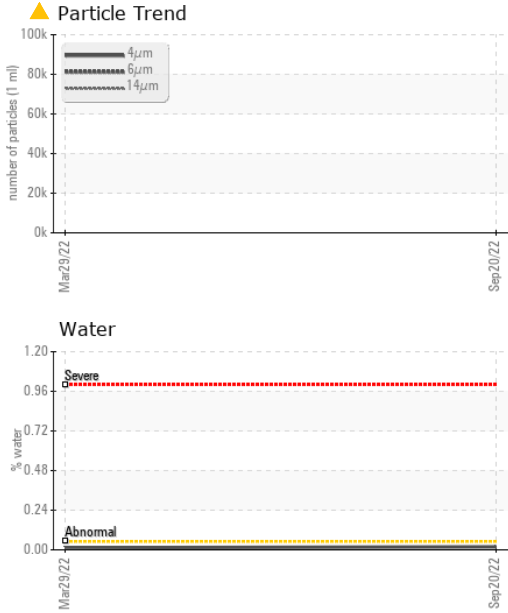
FLUID CLEANLINESS

	method	limit/base	current	history 1	history 2
Particles >4µm	ASTM D7647		96285	---	---
Particles >6µm	ASTM D7647	>1300	▲ 28269	---	---
Particles >14µm	ASTM D7647	>80	▲ 958	---	---
Particles >21µm	ASTM D7647	>20	▲ 70	---	---
Particles >38µm	ASTM D7647	>4	2	---	---
Particles >71µm	ASTM D7647	>3	0	---	---
Oil Cleanliness	ISO 4406 (c)	>--/17/13	▲ 24/22/17	---	---

FLUID DEGRADATION

	method	limit/base	current	history 1	history 2
Acid Number (AN)	mg KOH/g ASTM D8045	1.0	0.41	0.43	---

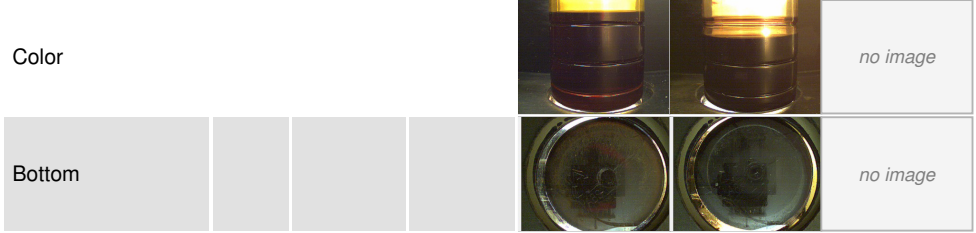
OIL ANALYSIS REPORT



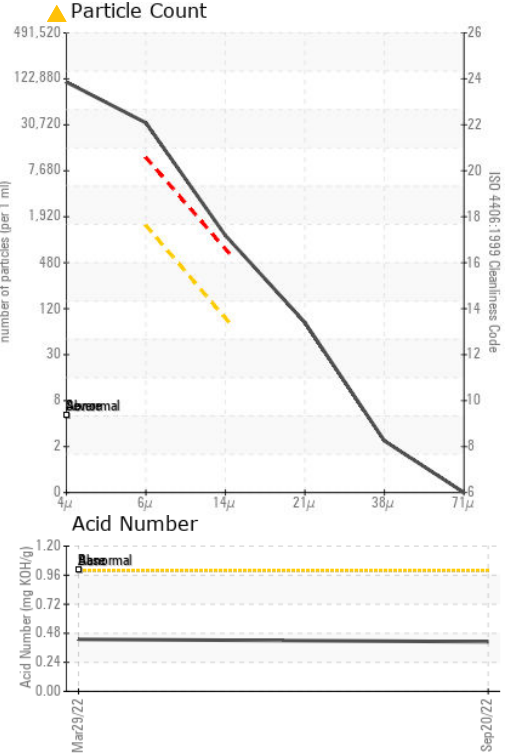
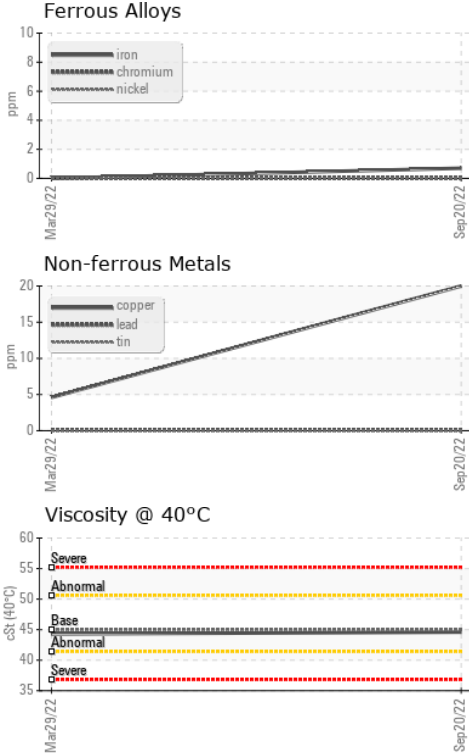
VISUAL	method	limit/base	current	history 1	history 2
White Metal	scalar	*Visual	NONE	NONE	MODER
Yellow Metal	scalar	*Visual	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE
Appearance	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	45	44.6	44.3

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. : KCP49340 **Received** : 22 Sep 2022
Lab Number : 05648945 **Diagnosed** : 26 Sep 2022
Unique Number : 10143484 **Diagnostician** : Jonathan Hester
Test Package : IND 2 (Additional Tests: KF, PrtCount)

MOTORS & ARMATURES
 13490 LAKEFRONT DR
 EARTH CITY, MO
 USA 63045
 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: