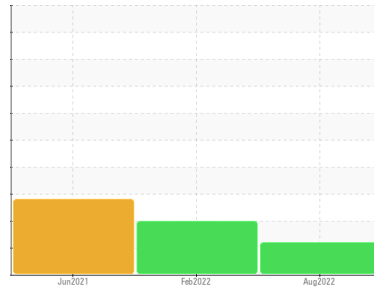


PROBLEM SUMMARY

Sample Rating Trend



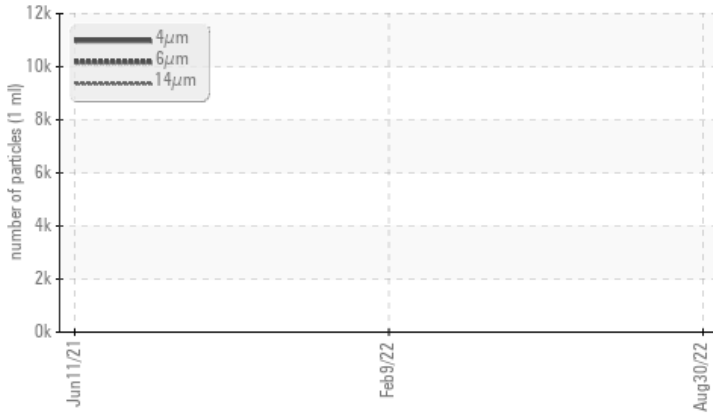
ISO



Machine Id
KAESER SM10 7706062 (S/N 1623)
Component
Compressor
Fluid
KAESER SIGMA (OEM) S-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	ABNORMAL	ABNORMAL
Particles >6µm	ASTM D7647	>1300	▲ 4496	---	---
Particles >14µm	ASTM D7647	>80	▲ 110	---	---
Oil Cleanliness	ISO 4406 (c)	>17/13	▲ 19/14	---	---

Customer Id: ORLORLKC
Sample No.: KC102440
Lab Number: 05647880
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

09 Feb 2022 Diag: Don Baldrige

WATER



We recommend you service the filters on 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 trace of moisture present in the oil. The AN level is acceptable for this fluid.

[view report](#)



11 Jun 2021 Diag: Jonathan Hester

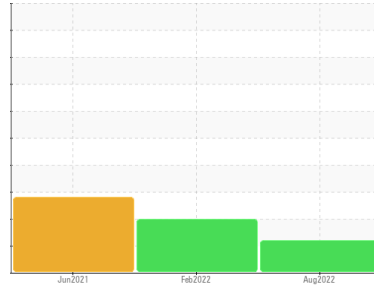
WATER



Oil and 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. Appearance is hazy. There is a moderate concentration of water present in the oil. 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](#)





Machine Id
KAESER SM10 7706062 (S/N 1623)

Component
Compressor
Fluid
KAESER SIGMA (OEM) S-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			KC102440	KC96317	KC86596
Sample Date			30 Aug 2022	09 Feb 2022	11 Jun 2021
Machine Age	hrs		80	57	33
Oil Age	hrs		47	24	33
Oil Changed			Changed	Not Changd	Changed
Sample Status			ABNORMAL	ABNORMAL	ABNORMAL

WEAR METALS

	method	limit/base	current	history 1	history 2
Iron	ppm ASTM D5185m	>50	<1	0	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	<1	0	<1
Aluminum	ppm ASTM D5185m	>10	0	<1	0
Lead	ppm ASTM D5185m	>10	<1	0	<1
Copper	ppm ASTM D5185m	>50	<1	<1	<1
Tin	ppm ASTM D5185m	>10	0	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	3	15
Barium	ppm ASTM D5185m	90	36	15	0
Molybdenum	ppm ASTM D5185m		0	0	0
Manganese	ppm ASTM D5185m		<1	<1	<1
Magnesium	ppm ASTM D5185m	90	50	18	1
Calcium	ppm ASTM D5185m	2	0	0	0
Phosphorus	ppm ASTM D5185m		<1	2	0
Zinc	ppm ASTM D5185m		15	3	8

CONTAMINANTS

	method	limit/base	current	history 1	history 2
Silicon	ppm ASTM D5185m	>25	2	<1	0
Sodium	ppm ASTM D5185m		15	2	2
Potassium	ppm ASTM D5185m	>20	5	0	0
Water	% ASTM D6304	>0.05	0.024	▲ 0.086	▲ 0.458
ppm Water	ppm ASTM D6304	>500	247.9	▲ 860	▲ 4580

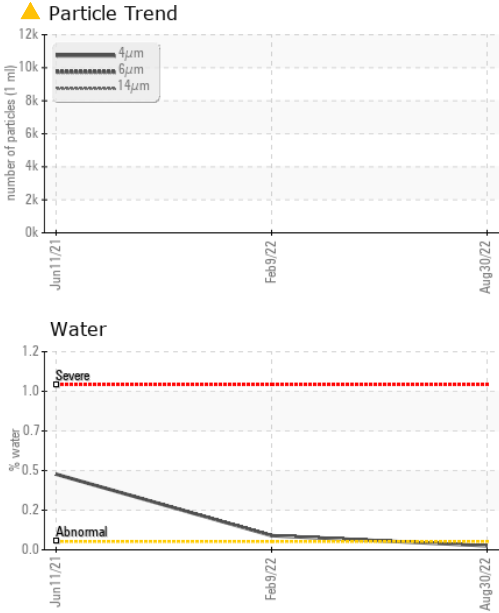
FLUID CLEANLINESS

	method	limit/base	current	history 1	history 2
Particles >4µm	ASTM D7647		11084	---	---
Particles >6µm	ASTM D7647	>1300	▲ 4496	---	---
Particles >14µm	ASTM D7647	>80	▲ 110	---	---
Particles >21µm	ASTM D7647	>20	13	---	---
Particles >38µm	ASTM D7647	>4	1	---	---
Particles >71µm	ASTM D7647	>3	0	---	---
Oil Cleanliness	ISO 4406 (c)	>17/13	▲ 19/14	---	---

FLUID DEGRADATION

	method	limit/base	current	history 1	history 2
Acid Number (AN)	mg KOH/g ASTM D8045	0.4	0.32	0.20	0.082

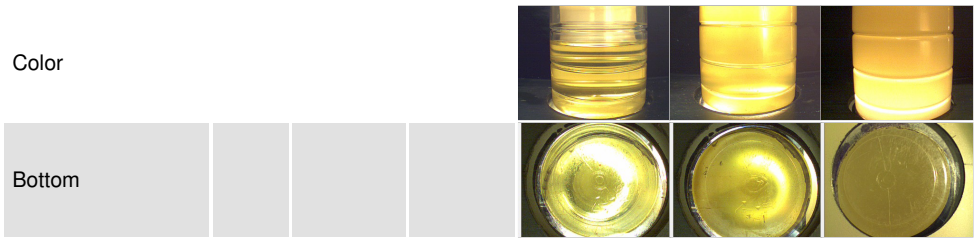
OIL ANALYSIS REPORT



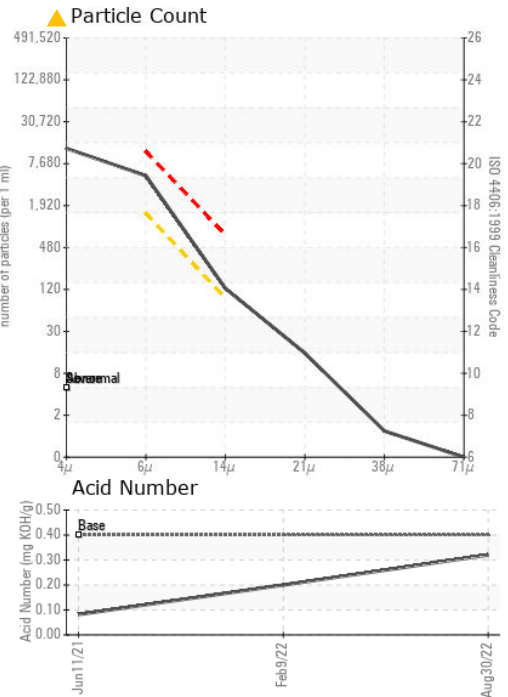
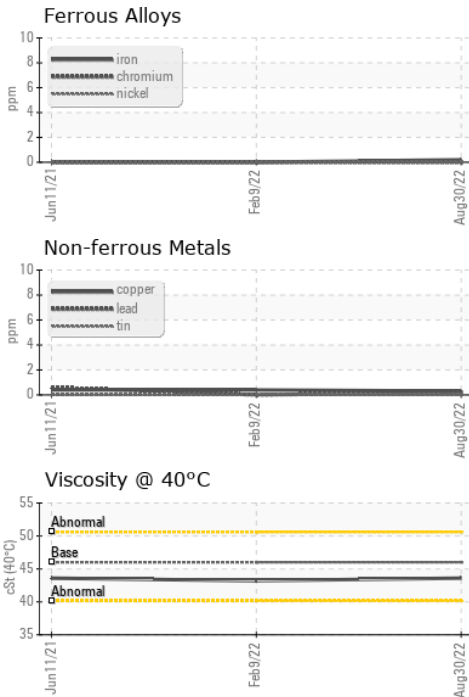
PARAMETER	method	limit/base	current	history 1	history 2
White Metal	scalar	*Visual	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	VLITE	▲ MODER
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE
Appearance	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	43.6	43.2

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. : KC102440 **Received** : 21 Sep 2022
Lab Number : 05647880 **Diagnosed** : 22 Sep 2022
Unique Number : 10142419 **Diagnostician** : Jonathan Hester
Test Package : IND 2

ORLANDO HEALTH
 45 W STURTEVANT STREET
 ORLANDO, FL
 USA 32806
 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: