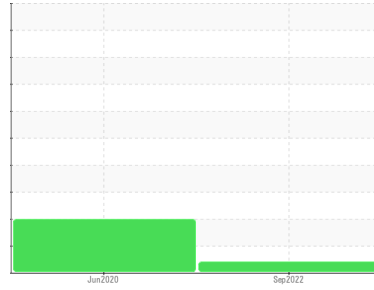


PROBLEM SUMMARY

Sample Rating Trend



VIS DEBRIS



Machine Id
KAESER SM 15 5415027 (S/N 1397)
Component
Compressor
Fluid
KAESER SIGMA (OEM) M-460 (--- GAL)

COMPONENT CONDITION SUMMARY

No relevant graphs to display

RECOMMENDATION

Oil and 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.

PROBLEMATIC TEST RESULTS

Sample Status				ABNORMAL	ATTENTION	---
Debris	scalar	*Visual	NONE	▲ MODER	VLITE	---

Customer Id: FITGAI
Sample No.: KCP30998
Lab Number: 05646562
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.
Alert	---	---	?	We were unable to perform a particle count due to a high concentration of particles present in this sample.

HISTORICAL DIAGNOSIS

24 Jun 2020 Diag: Angela Borella

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 moderate 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.

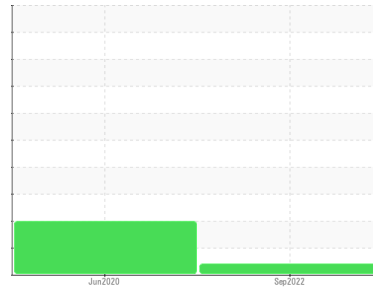
view report



Machine Id
KAESER SM 15 5415027 (S/N 1397)

Component
Compressor

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



DIAGNOSIS

▲ Recommendation

Oil and 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.

Wear

All component wear rates are normal.

▲ Contamination

Moderate concentration of visible dirt/debris 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			KCP30998	KCP10741	---
Sample Date			06 Sep 2022	24 Jun 2020	---
Machine Age	hrs		17948	12633	---
Oil Age	hrs		5315	3711	---
Oil Changed			Changed	Changed	---
Sample Status			ABNORMAL	ATTENTION	---

WEAR METALS

	method	limit/base	current	history 1	history 2
Iron	ppm ASTM D5185m	>50	<1	0	---
Chromium	ppm ASTM D5185m	>10	0	<1	---
Nickel	ppm ASTM D5185m	>3	0	<1	---
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	0	0	---
Copper	ppm ASTM D5185m	>50	24	11	---
Tin	ppm ASTM D5185m	>10	0	0	---
Antimony	ppm ASTM D5185m		---	0	---
Vanadium	ppm ASTM D5185m		0	0	---
Cadmium	ppm ASTM D5185m		0	<1	---

ADDITIVES

	method	limit/base	current	history 1	history 2
Boron	ppm ASTM D5185m	0	0	0	---
Barium	ppm ASTM D5185m	90	0	<1	---
Molybdenum	ppm ASTM D5185m	0	0	0	---
Manganese	ppm ASTM D5185m		0	0	---
Magnesium	ppm ASTM D5185m	100	0	1	---
Calcium	ppm ASTM D5185m	0	0	0	---
Phosphorus	ppm ASTM D5185m	0	2	3	---
Zinc	ppm ASTM D5185m	0	0	9	---
Sulfur	ppm ASTM D5185m	23500	19717	16662	---

CONTAMINANTS

	method	limit/base	current	history 1	history 2
Silicon	ppm ASTM D5185m	>25	<1	<1	---
Sodium	ppm ASTM D5185m		<1	<1	---
Potassium	ppm ASTM D5185m	>20	0	0	---
Water	% ASTM D6304	>0.05	0.010	0.01	---
ppm Water	ppm ASTM D6304	>500	101.7	100.0	---

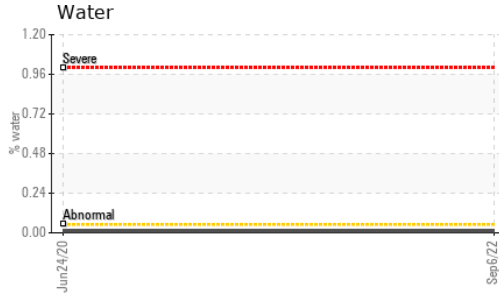
FLUID CLEANLINESS

	method	limit/base	current	history 1	history 2
Particles >4µm	ASTM D7647		---	7663	---
Particles >6µm	ASTM D7647	>1300	---	▲ 2403	---
Particles >14µm	ASTM D7647	>80	---	▲ 153	---
Particles >21µm	ASTM D7647	>20	---	▲ 42	---
Particles >38µm	ASTM D7647	>4	---	▲ 17	---
Particles >71µm	ASTM D7647	>3	---	▲ 15	---
Oil Cleanliness	ISO 4406 (c)	>--/17/13	---	▲ 18/14	---

FLUID DEGRADATION

	method	limit/base	current	history 1	history 2
Acid Number (AN)	mg KOH/g ASTM D8045	1.0	0.36	0.338	---

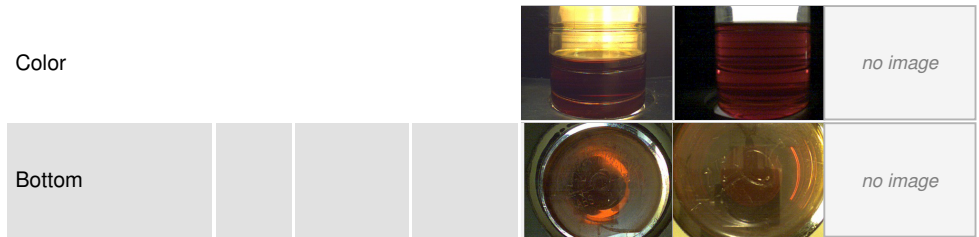
OIL ANALYSIS REPORT



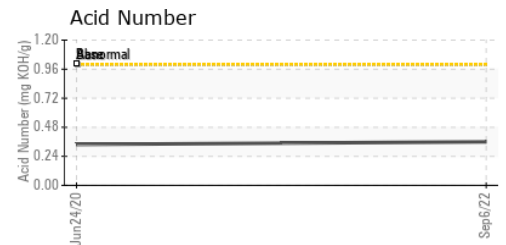
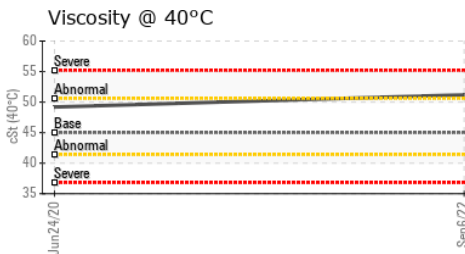
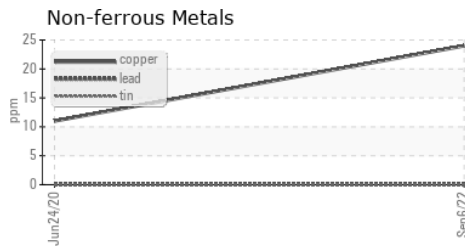
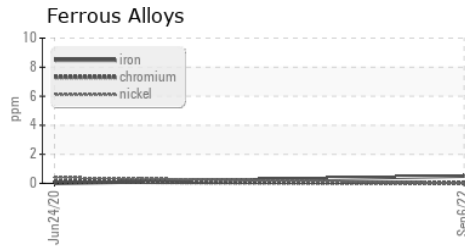
VISUAL	method	limit/base	current	history 1	history 2
White Metal	scalar	*Visual	NONE	NONE	---
Yellow Metal	scalar	*Visual	NONE	NONE	---
Precipitate	scalar	*Visual	NONE	NONE	---
Silt	scalar	*Visual	NONE	NONE	---
Debris	scalar	*Visual	NONE	▲ MODER	VLITE
Sand/Dirt	scalar	*Visual	NONE	NONE	---
Appearance	scalar	*Visual	NORML	NORML	---
Odor	scalar	*Visual	NORML	NORML	---
Emulsified Water	scalar	*Visual	>0.05	NEG	---
Free Water	scalar	*Visual		NEG	---

FLUID PROPERTIES	method	limit/base	current	history 1	history 2
Visc @ 40°C	cSt	ASTM D445	45	51.2	49.2

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. : KCP30998 **Received** : 20 Sep 2022
Lab Number : 05646562 **Diagnosed** : 21 Sep 2022
Unique Number : 10141101 **Diagnostician** : Jonathan Hester
Test Package : IND 2 (Additional Tests: KF, PrtCount)

FITZGERALD TOYOTA
 18707 N FREDERICK AVE
 GAITHERSBURG, MD
 USA 20879
 Contact:

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: