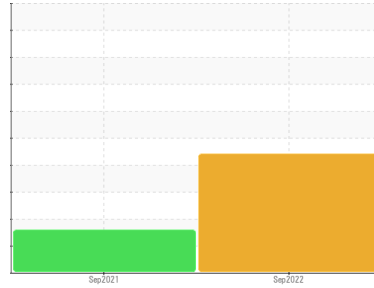


PROBLEM SUMMARY

Sample Rating Trend



WATER



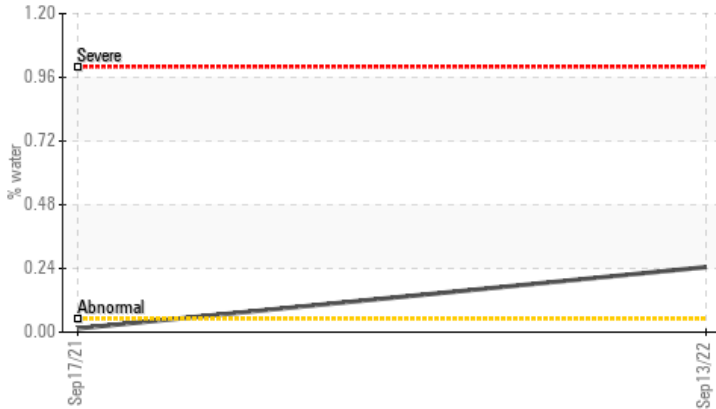
Machine Id
4033390 (S/N 1622)

Component
Compressor

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

COMPONENT CONDITION SUMMARY

▲ Water



RECOMMENDATION

Oil and filter change at the time of sampling has been noted. We were unable to perform a particle count due to a high concentration of particles present in this sample. We recommend an early resample in 500 hours to monitor this condition.

PROBLEMATIC TEST RESULTS

Sample Status				ABNORMAL	ABNORMAL	---
Water	%	ASTM D6304	>0.05	▲ 0.245	0.014	---
ppm Water	ppm	ASTM D6304	>500	▲ 2450	148.2	---
Silt	scalar	*Visual	NONE	▲ MODER	NONE	---
Debris	scalar	*Visual	NONE	▲ MODER	NONE	---
Free Water	scalar	*Visual		▲ 1.0	NEG	---

Customer Id: RSAMIL
Sample No.: KCP30945
Lab Number: 05646621
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

17 Sep 2021 Diag: Doug Bogart

ISO



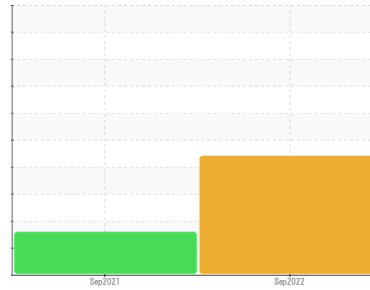
No corrective action is recommended at this time. The filter change at the time of sampling has been noted. Resample at the next service interval to monitor. All component wear rates are normal. There is a high amount of particulates present in the oil. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

view report



OIL ANALYSIS REPORT

Sample Rating Trend



WATER



Machine Id
4033390 (S/N 1622)

Component
Compressor

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

DIAGNOSIS

▲ Recommendation

Oil and filter change at the time of sampling has been noted. We were unable to perform a particle count due to a high concentration of particles present in this sample. We recommend an early resample in 500 hours to monitor this condition.

Wear

All component wear rates are normal.

▲ Contamination

Free water present. There is a light concentration of water present in the oil. Moderate concentration of visible dirt/debris present in the oil. There is a moderate amount of visible silt present in the sample.

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			KCP30945	KCP36032	---
Sample Date			13 Sep 2022	17 Sep 2021	---
Machine Age	hrs		0	44416	---
Oil Age	hrs		0	16419	---
Oil Changed			Changed	N/A	---
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	0	0	---
Titanium	ppm ASTM D5185m	>3	0	0	---
Silver	ppm ASTM D5185m	>2	0	<1	---
Aluminum	ppm ASTM D5185m	>10	0	<1	---
Lead	ppm ASTM D5185m	>10	0	<1	---
Copper	ppm ASTM D5185m	>50	13	5	---
Tin	ppm ASTM D5185m	>10	0	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	0	0	<1	---
Barium	ppm ASTM D5185m	90	0	4	---
Molybdenum	ppm ASTM D5185m	0	0	0	---
Manganese	ppm ASTM D5185m		<1	<1	---
Magnesium	ppm ASTM D5185m	100	0	32	---
Calcium	ppm ASTM D5185m	0	0	0	---
Phosphorus	ppm ASTM D5185m	0	1	4	---
Zinc	ppm ASTM D5185m	0	0	36	---
Sulfur	ppm ASTM D5185m	23500	22198	17909	---

CONTAMINANTS

	method	limit/base	current	history 1	history 2
Silicon	ppm ASTM D5185m	>25	1	<1	---
Sodium	ppm ASTM D5185m		0	3	---
Potassium	ppm ASTM D5185m	>20	0	1	---
Water	% ASTM D6304	>0.05	▲ 0.245	0.014	---
ppm Water	ppm ASTM D6304	>500	▲ 2450	148.2	---

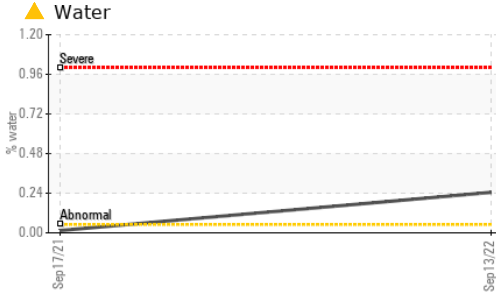
FLUID CLEANLINESS

	method	limit/base	current	history 1	history 2
Particles >4µm	ASTM D7647		---	49499	---
Particles >6µm	ASTM D7647	>1300	---	▲ 17103	---
Particles >14µm	ASTM D7647	>80	---	▲ 1687	---
Particles >21µm	ASTM D7647	>20	---	▲ 276	---
Particles >38µm	ASTM D7647	>4	---	▲ 8	---
Particles >71µm	ASTM D7647	>3	---	0	---
Oil Cleanliness	ISO 4406 (c)	>--/17/13	---	▲ 21/18	---

FLUID DEGRADATION

	method	limit/base	current	history 1	history 2
Acid Number (AN)	mg KOH/g ASTM D8045	1.0	0.48	0.357	---

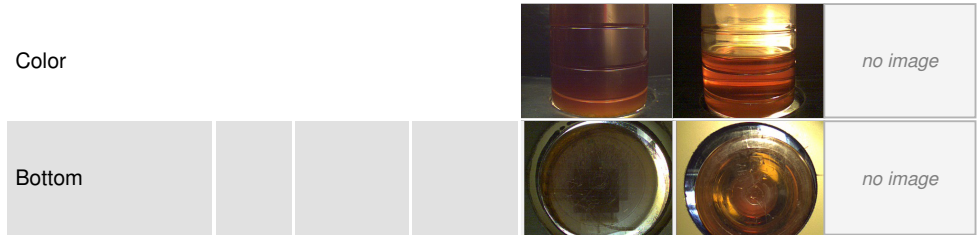
OIL ANALYSIS REPORT



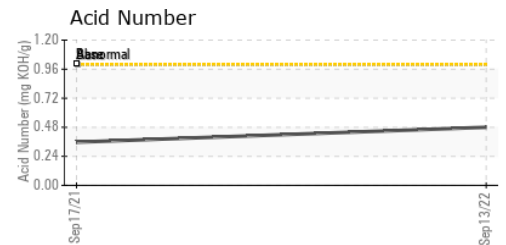
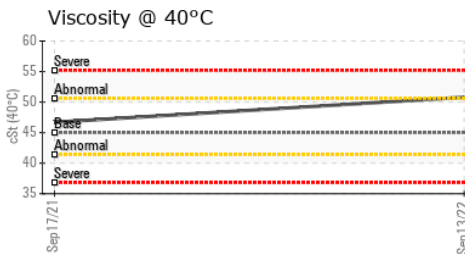
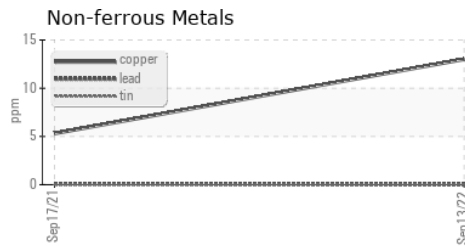
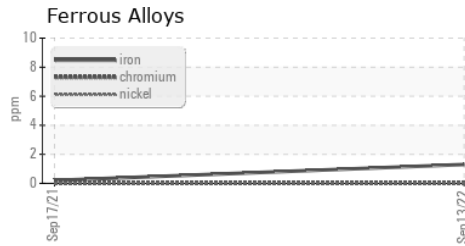
VISUAL	method	limit/base	current	history 1	history 2
White Metal	scalar	*Visual	NONE	NONE	---
Yellow Metal	scalar	*Visual	NONE	NONE	---
Precipitate	scalar	*Visual	NONE	NONE	---
Silt	scalar	*Visual	NONE	▲ MODER	---
Debris	scalar	*Visual	NONE	▲ MODER	---
Sand/Dirt	scalar	*Visual	NONE	NONE	---
Appearance	scalar	*Visual	NORML	NORML	---
Odor	scalar	*Visual	NORML	NORML	---
Emulsified Water	scalar	*Visual	>0.05	0.2%	NEG
Free Water	scalar	*Visual		▲ 1.0	NEG

FLUID PROPERTIES	method	limit/base	current	history 1	history 2
Visc @ 40°C	cSt	ASTM D445	45	50.8	46.7

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



GRAPHS



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : KCP30945 **Received** : 20 Sep 2022
Lab Number : 05646621 **Diagnosed** : 22 Sep 2022
Unique Number : 10141160 **Diagnostician** : Jonathan Hester
Test Package : IND 2 (Additional Tests: KF, PrtCount)

RSAC TUBE
 666 S MILPITAS BLVD
 MILPITAS, CA
 USA 95035
 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: