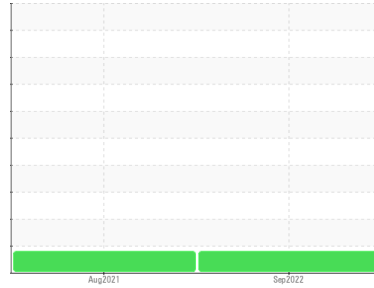


PROBLEM SUMMARY

Sample Rating Trend



ISO



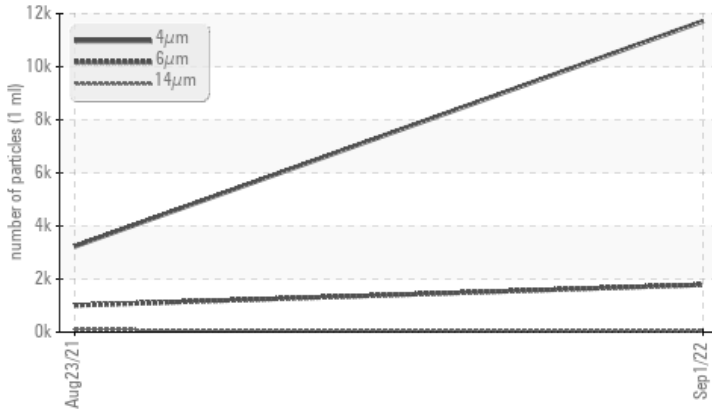
Machine Id
KAESER 6767668

Component
Compressor

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

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		ATTENTION	ATTENTION	---
Particles >6µm	ASTM D7647 >1300	▲ 1784	1009	---
Oil Cleanliness	ISO 4406 (c) >--/17/13	▲ 21/18/13	▲ 17/14	---

Customer Id: KROAUR
Sample No.: KCP41316
Lab Number: 05644905
Test Package: IND 2



To manage this report scan the QR code

To discuss the diagnosis or test data:
Angela Borella +1 800-237-1369
angela.borella@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

23 Aug 2021 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 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.

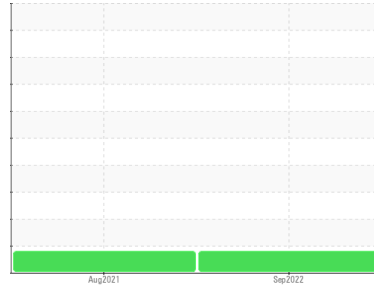
view report





Machine Id
KAESER 6767668

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.

Wear

All component wear rates are normal.

▲ Contamination

There is a moderate amount of silt (particulates < 14 microns in size) 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			KCP41316	KCP37837	---
Sample Date			01 Sep 2022	23 Aug 2021	---
Machine Age	hrs		8129	5210	---
Oil Age	hrs		2919	3335	---
Oil Changed			Changed	Changed	---
Sample Status			ATTENTION	ATTENTION	---

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	<1	<1	---
Aluminum	ppm ASTM D5185m	>10	<1	<1	---
Lead	ppm ASTM D5185m	>10	0	0	---
Copper	ppm ASTM D5185m	>50	19	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	16	---
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	9	30	---
Calcium	ppm ASTM D5185m	0	0	0	---
Phosphorus	ppm ASTM D5185m	0	2	0	---
Zinc	ppm ASTM D5185m	0	8	0	---
Sulfur	ppm ASTM D5185m	23500	18158	18495	---

CONTAMINANTS

	method	limit/base	current	history 1	history 2
Silicon	ppm ASTM D5185m	>25	1	0	---
Sodium	ppm ASTM D5185m		3	9	---
Potassium	ppm ASTM D5185m	>20	0	0	---
Water	% ASTM D6304	>0.05	0.005	0.014	---
ppm Water	ppm ASTM D6304	>500	59.6	149.5	---

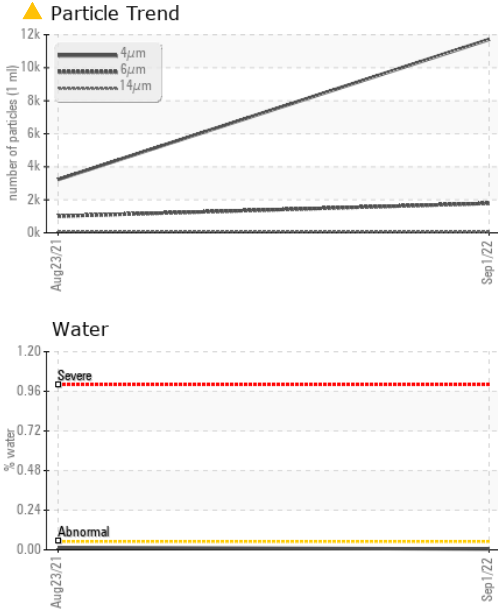
FLUID CLEANLINESS

	method	limit/base	current	history 1	history 2
Particles >4µm	ASTM D7647		11715	3229	---
Particles >6µm	ASTM D7647	>1300	▲ 1784	1009	---
Particles >14µm	ASTM D7647	>80	55	▲ 89	---
Particles >21µm	ASTM D7647	>20	14	▲ 21	---
Particles >38µm	ASTM D7647	>4	0	0	---
Particles >71µm	ASTM D7647	>3	0	0	---
Oil Cleanliness	ISO 4406 (c)	>--/17/13	▲ 21/18/13	▲ 17/14	---

FLUID DEGRADATION

	method	limit/base	current	history 1	history 2
Acid Number (AN)	mg KOH/g ASTM D8045	1.0	0.39	0.387	---

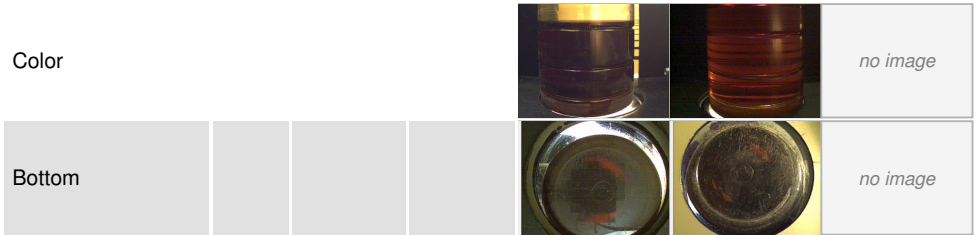
OIL ANALYSIS REPORT



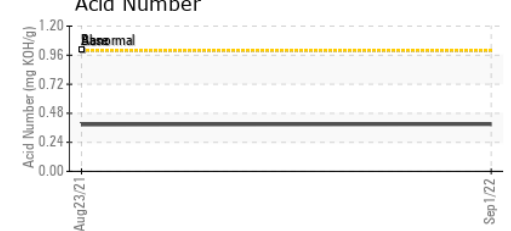
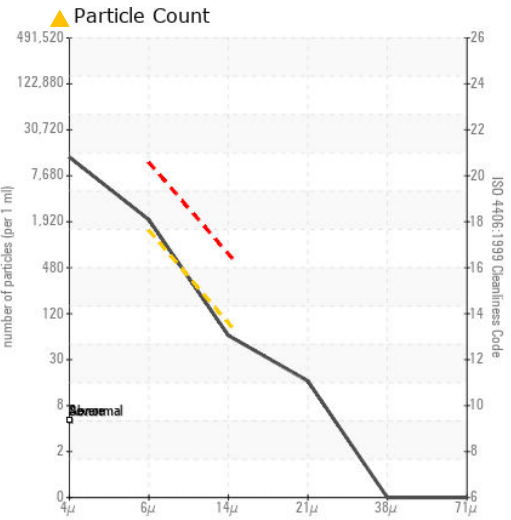
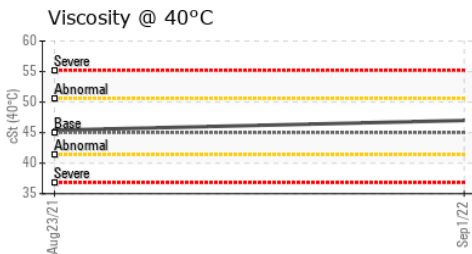
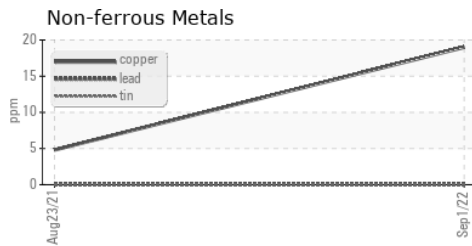
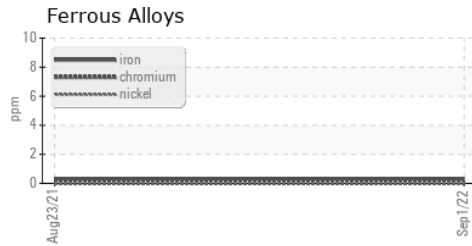
VISUAL	method	limit/base	current	history 1	history 2	
White Metal	scalar	*Visual	NONE	LIGHT	NONE	---
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	---
Precipitate	scalar	*Visual	NONE	NONE	NONE	---
Silt	scalar	*Visual	NONE	NONE	NONE	---
Debris	scalar	*Visual	NONE	LIGHT	LIGHT	---
Sand/Dirt	scalar	*Visual	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	45	47.0	45.4	---

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. : KCP41316 **Received** : 19 Sep 2022
Lab Number : 05644905 **Diagnosed** : 20 Sep 2022
Unique Number : 10139444 **Diagnostician** : Angela Borella
Test Package : IND 2 (Additional Tests: KF, PrtCount)

KROGER
 1933 TOWER RD
 AURORA, CO
 USA 80011
 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: