

PROBLEM SUMMARY

Sample Rating Trend

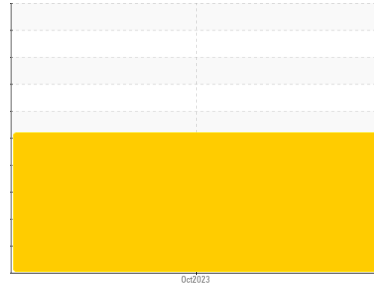
DEGRADATION



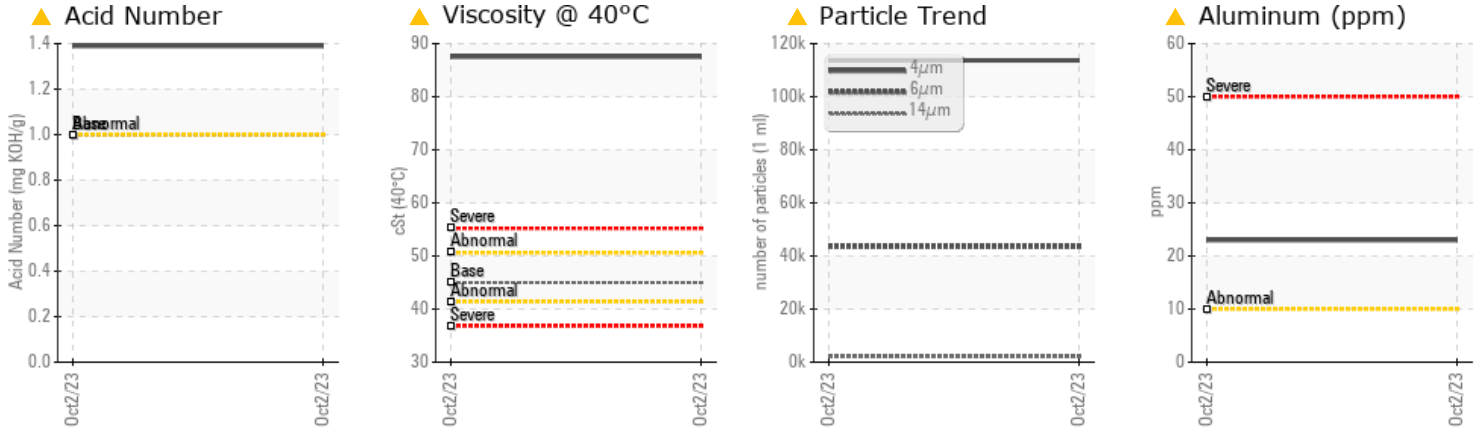
Machine Id
KAESER AS 20 5831886 (S/N 1192)

Component
Compressor

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



COMPONENT CONDITION SUMMARY



RECOMMENDATION

We advise that you check for a possible overheat condition. We recommend that you drain the oil from the component if this has not already been done. The filter change at the time of sampling has been noted. We recommend an early resample in 500 hours to monitor this condition.

PROBLEMATIC TEST RESULTS

Sample Status				ABNORMAL	---	---
Aluminum	ppm	ASTM D5185m	>10	▲ 23	---	---
Particles >6µm		ASTM D7647	>1300	▲ 43550	---	---
Particles >14µm		ASTM D7647	>80	▲ 2122	---	---
Particles >21µm		ASTM D7647	>20	▲ 396	---	---
Particles >38µm		ASTM D7647	>4	▲ 10	---	---
Particles >71µm		ASTM D7647	>3	▲ 2	---	---
Oil Cleanliness		ISO 4406 (c)	>--/17/13	▲ 24/23/18	---	---
Acid Number (AN)	mg KOH/g	ASTM D8045	1.0	▲ 1.39	---	---
Debris	scalar	*Visual	NONE	▲ MODER	---	---
Visc @ 40°C	cSt	ASTM D445	45	▲ 87.55	---	---

Customer Id: SABSALCA
Sample No.: KCPA006142
Lab Number: 05978946
Test Package: IND 2



To manage this report scan the QR code

To discuss the diagnosis or test data:
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jhester@wearcheckusa.com

To change component or sample information:
Customer Service +1 1-800-237-1369
customerservice@wearcheck.com

RECOMMENDED ACTIONS

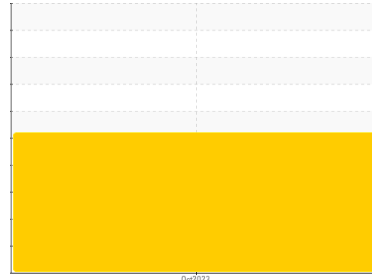
Action	Status	Date	Done By	Description
Change Fluid	---	---	?	We recommend that you drain the oil from the component if this has not already been done.
Check For Overheating	---	---	?	We advise that you check for a possible overheat condition.

HISTORICAL DIAGNOSIS



OIL ANALYSIS REPORT

Sample Rating Trend



DEGRADATION



Machine Id
KAESER AS 20 5831886 (S/N 1192)
 Component
Compressor
 Fluid
KAESER SIGMA (OEM) M-460 (--- GAL)

DIAGNOSIS

Recommendation

We advise that you check for a possible overheat condition. We recommend that you drain the oil from the component if this has not already been done. The filter change at the time of sampling has been noted. We recommend an early resample in 500 hours to monitor this condition.

Wear

The aluminum level is abnormal. All other component wear rates are normal.

Contamination

There is a high amount of particulates present in the oil. Moderate concentration of visible dirt/debris present in the oil.

Fluid Condition

The oil viscosity is higher than normal. The AN level is at the top-end of the recommended limit.

SAMPLE INFORMATION	method	limit/base	current	history1	history2
Sample Number	Client Info		KCPA006142	---	---
Sample Date	Client Info		02 Oct 2023	---	---
Machine Age	hrs	Client Info	40548	---	---
Oil Age	hrs	Client Info	0	---	---
Oil Changed	Client Info		N/A	---	---
Sample Status			ABNORMAL	---	---

WEAR METALS	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m >50	16	---	---
Chromium	ppm	ASTM D5185m >10	0	---	---
Nickel	ppm	ASTM D5185m >3	0	---	---
Titanium	ppm	ASTM D5185m >3	0	---	---
Silver	ppm	ASTM D5185m >2	0	---	---
Aluminum	ppm	ASTM D5185m >10	▲ 23	---	---
Lead	ppm	ASTM D5185m >10	0	---	---
Copper	ppm	ASTM D5185m >50	21	---	---
Tin	ppm	ASTM D5185m >10	<1	---	---
Vanadium	ppm	ASTM D5185m	0	---	---
Cadmium	ppm	ASTM D5185m	0	---	---

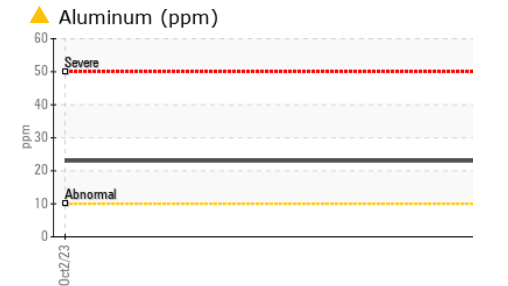
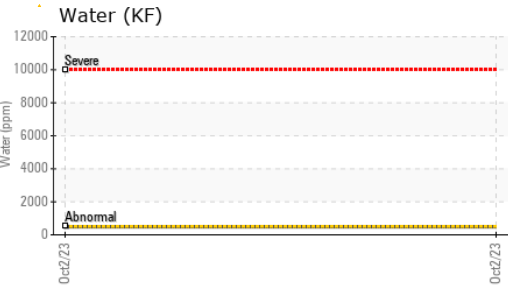
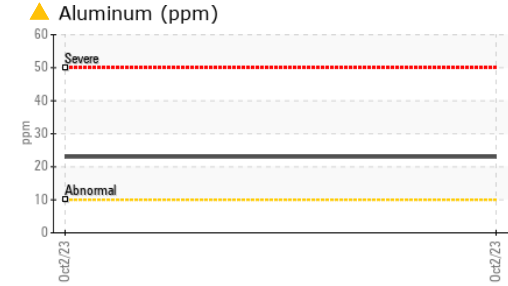
ADDITIVES	method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m 0	5	---	---
Barium	ppm	ASTM D5185m 90	0	---	---
Molybdenum	ppm	ASTM D5185m 0	0	---	---
Manganese	ppm	ASTM D5185m	<1	---	---
Magnesium	ppm	ASTM D5185m 100	1	---	---
Calcium	ppm	ASTM D5185m 0	3	---	---
Phosphorus	ppm	ASTM D5185m 0	62	---	---
Zinc	ppm	ASTM D5185m 0	19	---	---
Sulfur	ppm	ASTM D5185m 23500	759	---	---

CONTAMINANTS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m >25	6	---	---
Sodium	ppm	ASTM D5185m	10	---	---
Potassium	ppm	ASTM D5185m >20	2	---	---
Water	%	ASTM D6304 >0.05	0.048	---	---
ppm Water	ppm	ASTM D6304 >500	485.6	---	---

FLUID CLEANLINESS	method	limit/base	current	history1	history2
Particles >4µm	ASTM D7647		113680	---	---
Particles >6µm	ASTM D7647	>1300	▲ 43550	---	---
Particles >14µm	ASTM D7647	>80	▲ 2122	---	---
Particles >21µm	ASTM D7647	>20	▲ 396	---	---
Particles >38µm	ASTM D7647	>4	▲ 10	---	---
Particles >71µm	ASTM D7647	>3	▲ 2	---	---
Oil Cleanliness	ISO 4406 (c)	>--/17/13	▲ 24/23/18	---	---

FLUID DEGRADATION	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045 1.0	▲ 1.39	---	---

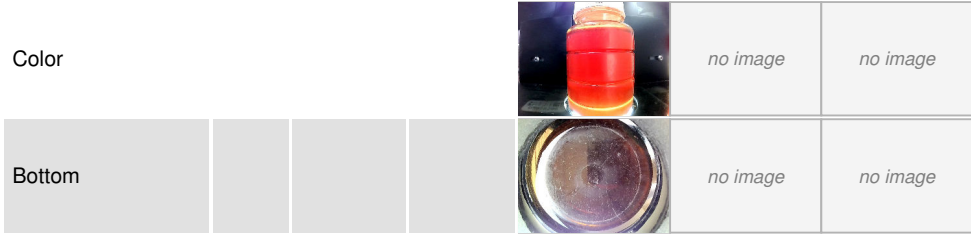
OIL ANALYSIS REPORT



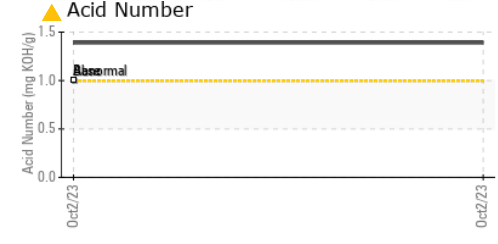
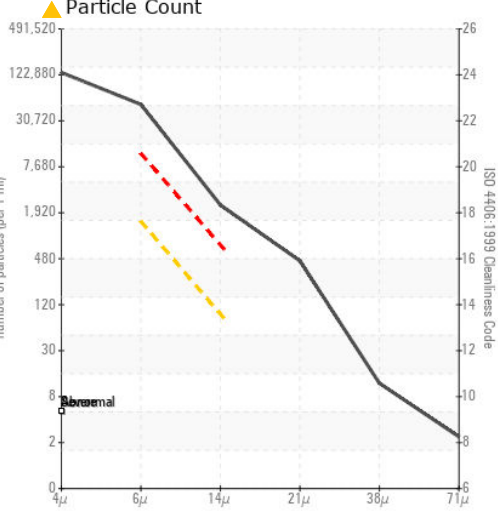
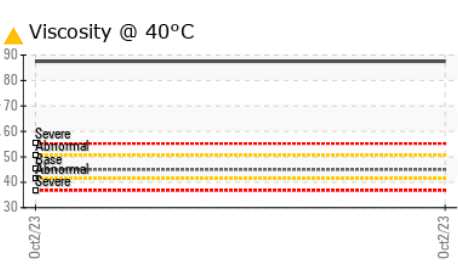
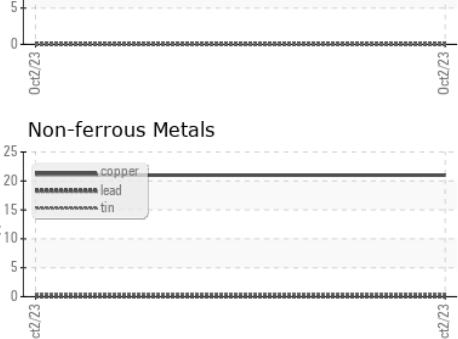
VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	---
Yellow Metal	scalar	*Visual	NONE	NONE	---
Precipitate	scalar	*Visual	NONE	NONE	---
Silt	scalar	*Visual	NONE	NONE	---
Debris	scalar	*Visual	NONE	▲ MODER	---
Sand/Dirt	scalar	*Visual	NONE	NONE	---
Appearance	scalar	*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	history1	history2
Visc @ 40°C	cSt	ASTM D445	45	▲ 87.55	---

SAMPLE IMAGES	method	limit/base	current	history1	history2
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GRAPHS



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : KCPA006142 **Received** : 13 Oct 2023
Lab Number : 05978946 **Diagnosed** : 19 Oct 2023
Unique Number : 10696241 **Diagnostician** : Jonathan Hester
Test Package : IND 2 (Additional Tests: KF, PrtCount)

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 US 93901
 Contact: MIKE G.
 gmike@saborfarms.com

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)