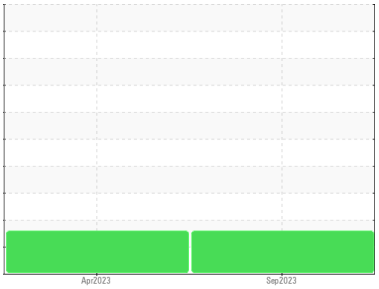
PROBLEM SUMMARY

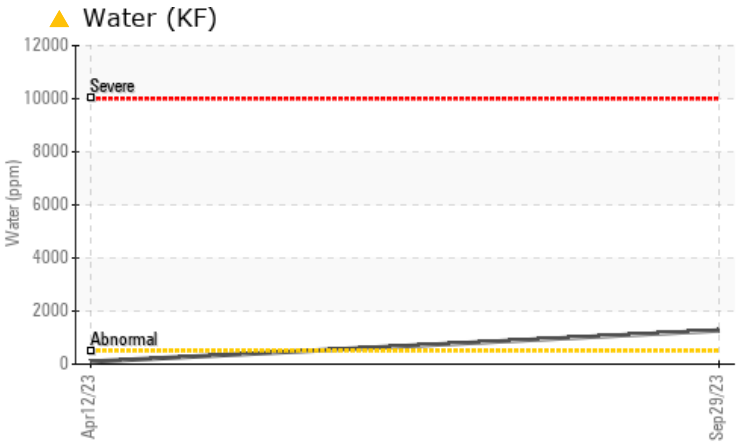
Sample Rating Trend



WATER

Machine Id
KAESER 8396185 (S/N 2001)
Component
Compressor
Fluid
KAESER SIGMA (OEM) S-460 (--- GAL)

COMPONENT CONDITION SUMMARY



RECOMMENDATION

We advise that you stop the unit and follow the water drain-off procedure for this component. We recommend an early resample in 500 hours to monitor this condition.

PROBLEMATIC TEST RESULTS

Sample Status				**ABNORMAL**	ABNORMAL	---
Water	%	ASTM D6304	>0.05	▲ **0.127**	0.009	---
ppm Water	ppm	ASTM D6304	>500	▲ **1270**	93.9	---
Emulsified Water	scalar	*Visual	>0.05	▲ **0.2%**	NEG	---

Customer Id: SMATAM
Sample No.: KC125442
Lab Number: 05981930
Test Package: IND 2

To manage this report scan the QR code

To discuss the diagnosis or test data:
Don Baldridge +1
don.b505@comcast.net

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

RECOMMENDED ACTIONS

There are no recommended actions for this sample.

HISTORICAL DIAGNOSIS

12 Apr 2023 Diag: Don Baldridge

ISO

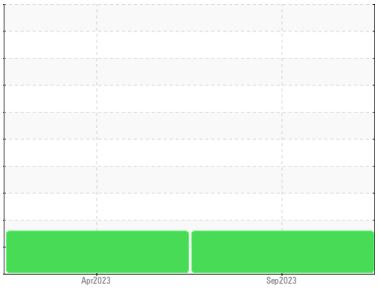
Oil and filter change at the time of sampling has been noted. No corrective action is recommended at this time. Resample at the next service interval to monitor.All component wear rates are normal. There is a high amount of particulates present in the oil. The AN level is acceptable for this fluid. The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

view report

KAESER COMPRESSORS
Built for a lifetime.

OIL ANALYSIS REPORT

Sample Rating Trend



WATER

Machine Id
KAESER 8396185 (S/N 2001)
Component
Compressor
Fluid
KAESER SIGMA (OEM) S-460 (--- GAL)

DIAGNOSIS

▲ Recommendation
We advise that you stop the unit and follow the water drain-off procedure for this component. We recommend an early resample in 500 hours to monitor this condition.

Wear
All component wear rates are normal.

▲ Contamination
There is a light concentration of water present in the oil. The amount and size of particulates present in the system are acceptable.

Fluid Condition
The AN level is acceptable for this fluid.

SAMPLE INFORMATION		method	limit/base	current	history1	history2
Sample Number		Client Info		**KC125442**	KC101053	---
Sample Date		Client Info		**29 Sep 2023**	12 Apr 2023	---
Machine Age	hrs	Client Info		**5178**	3848	---
Oil Age	hrs	Client Info		**0**	3848	---
Oil Changed		Client Info		**N/A**	Changed	---
Sample Status				**ABNORMAL**	ABNORMAL	---

WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>50	**0**	<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**	0	---
Aluminum	ppm	ASTM D5185m	>10	**0**	0	---
Lead	ppm	ASTM D5185m	>10	**<1**	0	---
Copper	ppm	ASTM D5185m	>50	**8**	16	---
Tin	ppm	ASTM D5185m	>10	**0**	0	---
Vanadium	ppm	ASTM D5185m		**0**	0	---
Cadmium	ppm	ASTM D5185m		**0**	0	---

ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		**0**	0	---
Barium	ppm	ASTM D5185m	90	**3**	0	---
Molybdenum	ppm	ASTM D5185m		**0**	0	---
Manganese	ppm	ASTM D5185m		**0**	0	---
Magnesium	ppm	ASTM D5185m	90	**19**	2	---
Calcium	ppm	ASTM D5185m	2	**0**	0	---
Phosphorus	ppm	ASTM D5185m		**3**	2	---
Zinc	ppm	ASTM D5185m		**29**	7	---

CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	**<1**	<1	---
Sodium	ppm	ASTM D5185m		**5**	0	---
Potassium	ppm	ASTM D5185m	>20	**3**	<1	---
Water	%	ASTM D6304	>0.05	▲ **0.127**	0.009	---
ppm Water	ppm	ASTM D6304	>500	▲ **1270**	93.9	---

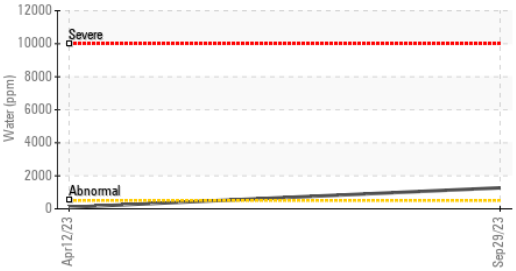
FLUID CLEANLINESS		method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647		**498**	17503	---
Particles >6µm		ASTM D7647	>1300	**95**	▲ 5434	---
Particles >14µm		ASTM D7647	>80	**7**	▲ 176	---
Particles >21µm		ASTM D7647	>20	**2**	▲ 26	---
Particles >38µm		ASTM D7647	>4	**0**	2	---
Particles >71µm		ASTM D7647	>3	**0**	0	---
Oil Cleanliness		ISO 4406 (c)	>--/17/13	**16/14/10**	▲ 21/20/15	---

FLUID DEGRADATION		method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045	0.4	**0.29**	0.26	---

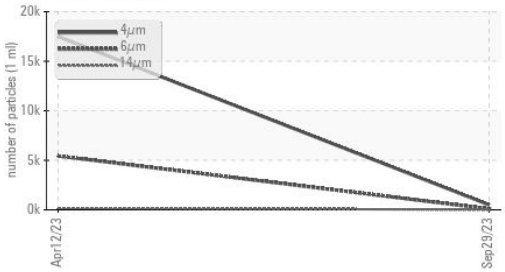
KAESER COMPRESSORS
Built for a lifetime.

OIL ANALYSIS REPORT

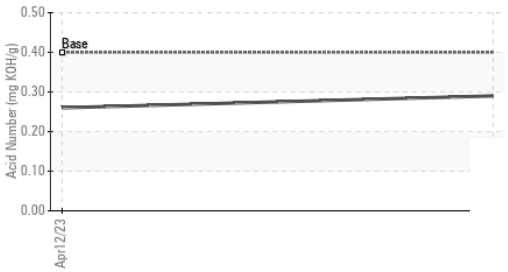
Water (KF)



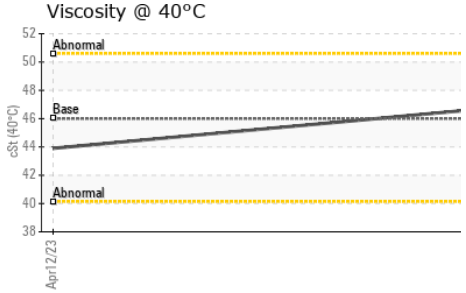
Particle Trend



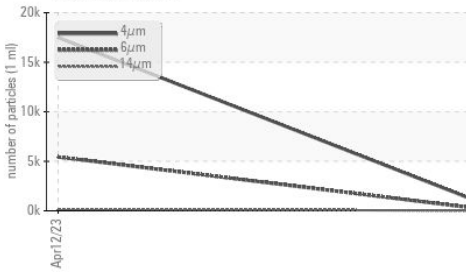
Acid Number



Viscosity @ 40°C

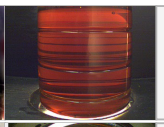
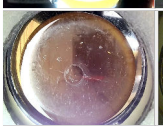
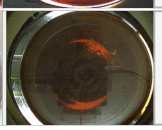


Particle Trend



VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	**NONE**	LIGHT	---
Yellow Metal	scalar	*Visual	NONE	**NONE**	NONE	---
Precipitate	scalar	*Visual	NONE	**NONE**	NONE	---
Silt	scalar	*Visual	NONE	**NONE**	NONE	---
Debris	scalar	*Visual	NONE	**NONE**	NONE	---
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	▲ **0.2%**	NEG	---
Free Water	scalar	*Visual		**NEG**	NEG	---

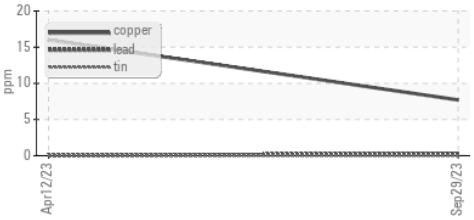
FLUID PROPERTIES		method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	46	**46.7**	43.9	---

SAMPLE IMAGES	method	limit/base	current	history1	history2
Color					no image
Bottom					no image

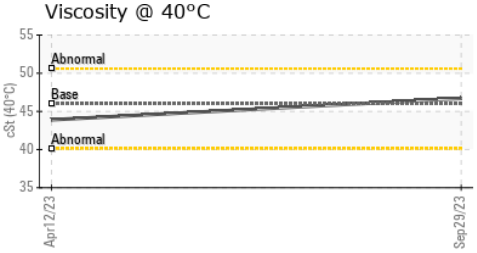
GRAPHS

Ferrous Alloys

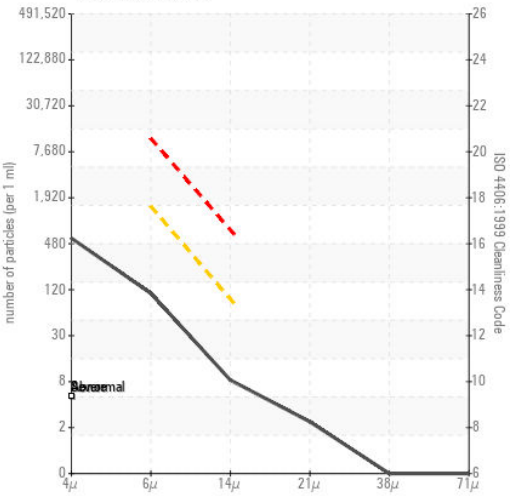
Non-ferrous Metals



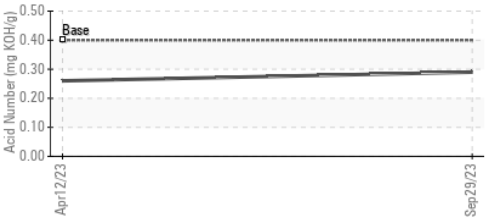
Viscosity @ 40°C



Particle Count



Acid Number



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : KC125442
Lab Number : 05981930
Unique Number : 10699225
Test Package : IND 2

Received : 17 Oct 2023
Diagnosed : 21 Oct 2023
Diagnostician : Don Baldridge

SMART SCIENCE LAB
13760 REPTRON BLVD
TAMPA, FL
US 33626
Contact: Service Manager
T:
F:

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)