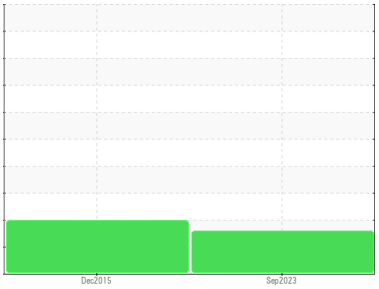
PROBLEM SUMMARY

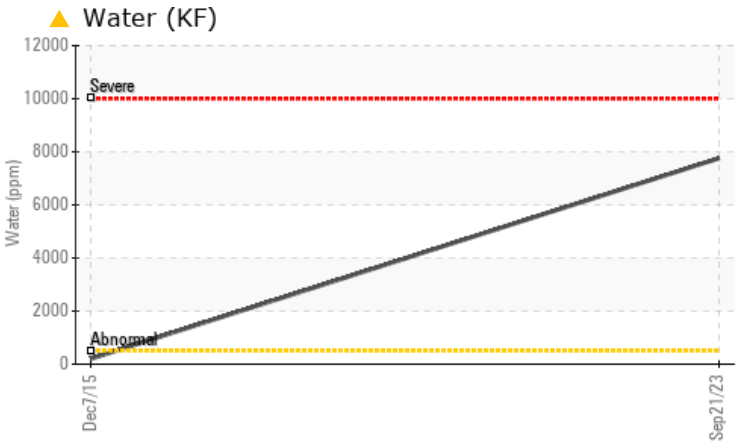
Sample Rating Trend



WATER

Machine Id
KAESER SX 7.5 4817968 (S/N 1139)
Component
Compressor
Fluid
KAESER SIGMA (OEM) M-460 (--- QTS)

COMPONENT CONDITION SUMMARY



RECOMMENDATION

There is too much water present in this sample to perform a particle count. 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	▲ **0.776**	0.020	---
ppm Water	ppm	ASTM D6304	>500	▲ **7760**	200	---
Emulsified Water	scalar	*Visual	>0.05	▲ **0.2%**	NEG	---

Customer Id: ZAHLOV
Sample No.: KCPA000642
Lab Number: 05982393
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

07 Dec 2015 Diag: Jonathan Hester

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 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

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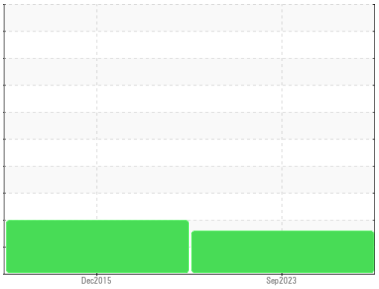
OIL ANALYSIS REPORT

Sample Rating Trend



WATER

Machine Id
KAESER SX 7.5 4817968 (S/N 1139)
Component
Compressor
Fluid
KAESER SIGMA (OEM) M-460 (--- QTS)

DIAGNOSIS

▲ Recommendation
There is too much water present in this sample to perform a particle count. 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 moderate concentration of water present in the oil.

Fluid Condition
The AN level is acceptable for this fluid.

SAMPLE INFORMATION		method	limit/base	current	history1	history2
Sample Number		Client Info		**KCPA000642**	KCP47739	---
Sample Date		Client Info		**21 Sep 2023**	07 Dec 2015	---
Machine Age	hrs	Client Info		**1865**	330	---
Oil Age	hrs	Client Info		**0**	330	---
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**	<1	---
Aluminum	ppm	ASTM D5185m	>10	**0**	0	---
Lead	ppm	ASTM D5185m	>10	**0**	1	---
Copper	ppm	ASTM D5185m	>50	**<1**	2	---
Tin	ppm	ASTM D5185m	>10	**0**	2	---
Antimony	ppm	ASTM D5185m		**---**	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**	<1	---
Barium	ppm	ASTM D5185m	90	**5**	18	---
Molybdenum	ppm	ASTM D5185m	0	**0**	0	---
Manganese	ppm	ASTM D5185m		**0**	<1	---
Magnesium	ppm	ASTM D5185m	100	**13**	75	---
Calcium	ppm	ASTM D5185m	0	**0**	3	---
Phosphorus	ppm	ASTM D5185m	0	**2**	42	---
Zinc	ppm	ASTM D5185m	0	**14**	10	---
Sulfur	ppm	ASTM D5185m	23500	**19295**	18625	---

CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	**15**	24	---
Sodium	ppm	ASTM D5185m		**2**	15	---
Potassium	ppm	ASTM D5185m	>20	**0**	3	---
Water	%	ASTM D6304	>0.05	▲ **0.776**	0.020	---
ppm Water	ppm	ASTM D6304	>500	▲ **7760**	200	---

FLUID CLEANLINESS		method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647		**---**	16026	---
Particles >6µm		ASTM D7647	>1300	**---**	▲ 8730	---
Particles >14µm		ASTM D7647	>80	**---**	▲ 1487	---
Particles >21µm		ASTM D7647	>20	**---**	▲ 501	---
Particles >38µm		ASTM D7647	>4	**---**	▲ 77	---
Particles >71µm		ASTM D7647	>3	**---**	▲ 7	---
Oil Cleanliness		ISO 4406 (c)	>17/13	**---**	▲ 20/18	---

FLUID DEGRADATION		method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045	1.0	**0.21**	0.294	---

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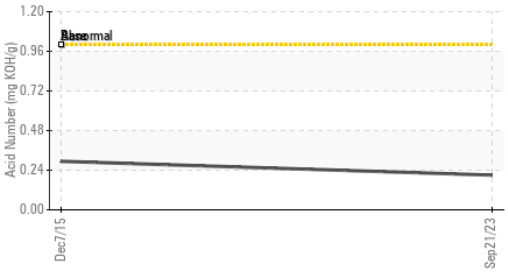
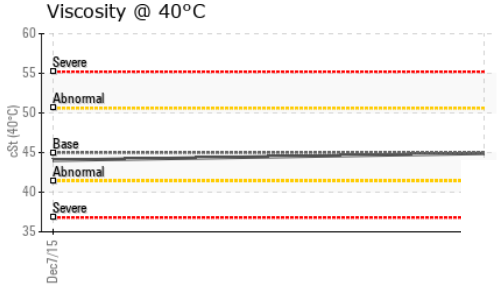
OIL ANALYSIS REPORT

Water (KF)

Acid Number



Viscosity @ 40°C



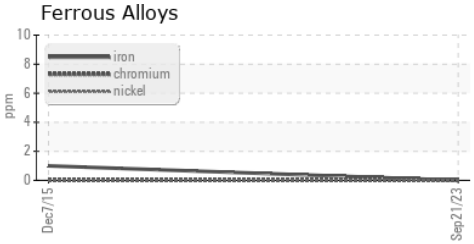
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	**HEAVY**	LIGHT	---
Yellow Metal	scalar	*Visual	NONE	**NONE**	NONE	---
Precipitate	scalar	*Visual	NONE	**NONE**	NONE	---
Silt	scalar	*Visual	NONE	**NONE**	NONE	---
Debris	scalar	*Visual	NONE	**NONE**	LIGHT	---
Sand/Dirt	scalar	*Visual	NONE	**NONE**	NONE	---
Appearance	scalar	*Visual	NORML	**NORML**	NORML	---
Odor	scalar	*Visual	NORML	**NORML**	NORML	---
Emulsified Water	scalar	*Visual	>0.05	▲ **0.2%**	NEG	---
Free Water	scalar	*Visual		**NEG**	NEG	---

FLUID PROPERTIES		method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	45	**44.9**	44.03	---

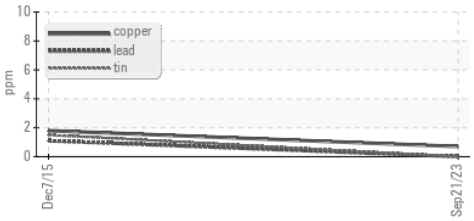
SAMPLE IMAGES	method	limit/base	current	history1	history2
Color				*no image*	*no image*
Bottom				*no image*	*no image*

GRAPHS

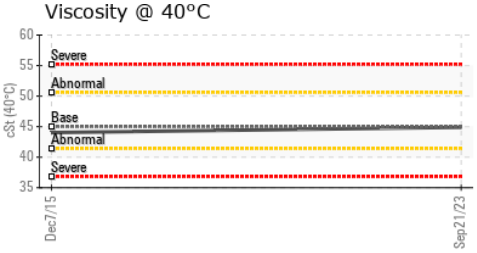
Ferrous Alloys



Non-ferrous Metals



Viscosity @ 40°C



Acid Number

Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : KCPA000642 **Received** : 18 Oct 2023
Lab Number : 05982393 **Diagnosed** : 21 Oct 2023
Unique Number : 10699688 **Diagnostician** : Don Baldridge
Test Package : IND 2 (Additional Tests: KF, PrtCount)

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)

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