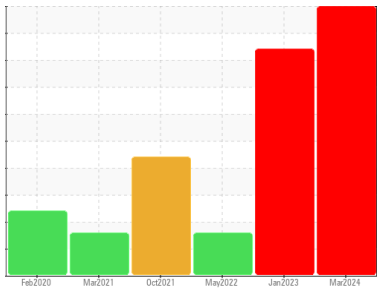
PROBLEM SUMMARY

Sample Rating Trend

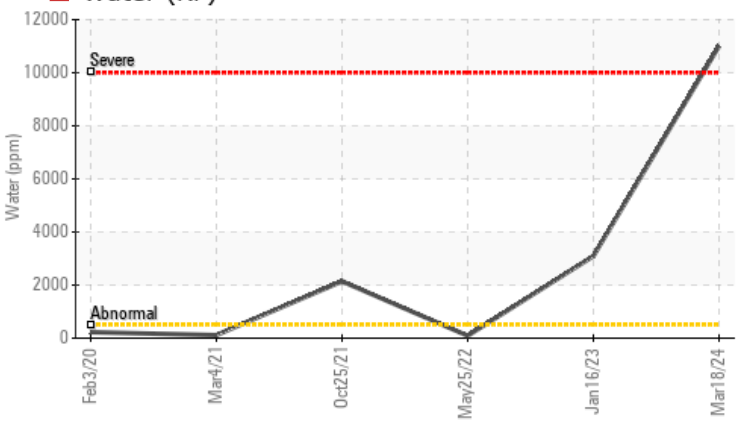


WATER

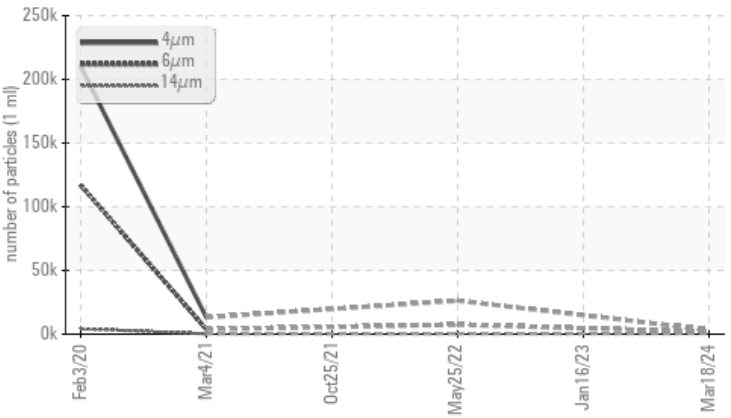
Machine Id
KAESER SM 10 6353319 (S/N 1133)
Component
Compressor
Fluid
KAESER SIGMA (OEM) S-460 (--- GAL)

COMPONENT CONDITION SUMMARY

▲ Water (KF)



▲ Particle Trend



RECOMMENDATION

The filter change at the time of sampling has been noted. 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				**SEVERE**	SEVERE	ABNORMAL
Water	%	ASTM D6304	>0.05	▲ **1.10**	▲ 0.309	0.008
ppm Water	ppm	ASTM D6304	>500	▲ **11000**	▲ 3090	89.0
Particles >6µm		ASTM D7647	>1300	▲ **1848**	---	▲ 7434
Particles >14µm		ASTM D7647	>80	▲ **315**	---	▲ 212
Particles >21µm		ASTM D7647	>20	▲ **106**	---	▲ 31
Particles >38µm		ASTM D7647	>4	▲ **16**	---	2
Particles >71µm		ASTM D7647	>3	▲ **2**	---	0
Oil Cleanliness		ISO 4406 (c)	>--/17/13	▲ **19/18/15**	---	▲ 22/20/15
Emulsified Water	scalar	*Visual	>0.05	▲ **0.2%**	▲ 0.2%	NEG
Free Water	scalar	*Visual		▲ **>10%**	▲ 10.0	NEG

Customer Id: RBMALP
Sample No.: KCPA013802
Lab Number: 06143730
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

There are no recommended actions for this sample.

HISTORICAL DIAGNOSIS

WATER

16 Jan 2023 Diag: Angela Borella

The 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 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.All component wear rates are normal. There is a light concentration of water present in the oil. Excessive free water present. Moderate concentration of visible dirt/debris present in the oil. The AN level is acceptable for this fluid. The condition of the oil is acceptable for the time in service.

view report

ISO

25 May 2022 Diag: Don Baldridge

No corrective action is recommended at this time. 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

WATER

25 Oct 2021 Diag: Jonathan Hester

The filter change at the time of sampling has been noted. 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. We were unable to perform a particle count due to a high concentration of particles present in this sample.All component wear rates are normal. Moderate concentration of visible dirt/debris present in the oil. Free water present. There is a light concentration of water 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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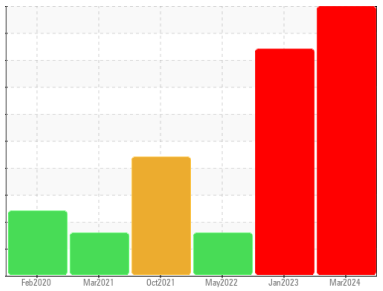
OIL ANALYSIS REPORT

Sample Rating Trend



WATER

Machine Id
KAESER SM 10 6353319 (S/N 1133)
Component
Compressor
Fluid
KAESER SIGMA (OEM) S-460 (--- GAL)

DIAGNOSIS

▲ Recommendation
The filter change at the time of sampling has been noted. 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 high amount of particulates present in the oil. Excessive free water present. There is a high 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		**KCPA013802**	KCP52219	KCP50828
Sample Date		Client Info		**18 Mar 2024**	16 Jan 2023	25 May 2022
Machine Age	hrs	Client Info		**9275**	4865	4736
Oil Age	hrs	Client Info		**4000**	139	2800
Oil Changed		Client Info		**Not Changd**	Not Changd	Changed
Sample Status				**SEVERE**	SEVERE	ABNORMAL

WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>50	**0**	2	<1
Chromium	ppm	ASTM D5185m	>10	**<1**	0	0
Nickel	ppm	ASTM D5185m	>3	**0**	0	0
Titanium	ppm	ASTM D5185m	>3	**0**	0	0
Silver	ppm	ASTM D5185m	>2	**0**	0	0
Aluminum	ppm	ASTM D5185m	>10	**0**	0	<1
Lead	ppm	ASTM D5185m	>10	**0**	<1	0
Copper	ppm	ASTM D5185m	>50	**22**	6	10
Tin	ppm	ASTM D5185m	>10	**0**	0	0
Antimony	ppm	ASTM D5185m		**---**	---	---
Vanadium	ppm	ASTM D5185m		**0**	0	0
Cadmium	ppm	ASTM D5185m		**0**	0	0

ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		**0**	0	0
Barium	ppm	ASTM D5185m	90	**0**	0	0
Molybdenum	ppm	ASTM D5185m		**0**	<1	0
Manganese	ppm	ASTM D5185m		**0**	<1	0
Magnesium	ppm	ASTM D5185m	90	**0**	28	16
Calcium	ppm	ASTM D5185m	2	**<1**	39	<1
Phosphorus	ppm	ASTM D5185m		**2**	23	4
Zinc	ppm	ASTM D5185m		**0**	55	18
Sulfur	ppm	ASTM D5185m		**19133**	16856	20374

CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	**0**	<1	<1
Sodium	ppm	ASTM D5185m		**0**	7	6
Potassium	ppm	ASTM D5185m	>20	**0**	1	0
Water	%	ASTM D6304	>0.05	**▲ 1.10**	▲ 0.309	0.008
ppm Water	ppm	ASTM D6304	>500	**▲ 11000**	▲ 3090	89.0

FLUID CLEANLINESS		method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647		**3393**	---	26244
Particles >6µm		ASTM D7647	>1300	**▲ 1848**	---	▲ 7434
Particles >14µm		ASTM D7647	>80	**▲ 315**	---	▲ 212
Particles >21µm		ASTM D7647	>20	**▲ 106**	---	▲ 31
Particles >38µm		ASTM D7647	>4	**▲ 16**	---	2
Particles >71µm		ASTM D7647	>3	**▲ 2**	---	0
Oil Cleanliness		ISO 4406 (c)	>--/17/13	**▲ 19/18/15**	---	▲ 22/20/15

FLUID DEGRADATION		method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045	0.4	**0.31**	0.28	0.32

KAESER COMPRESSORS
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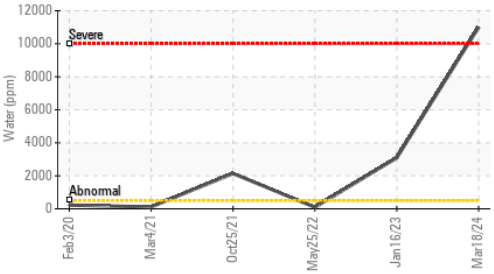
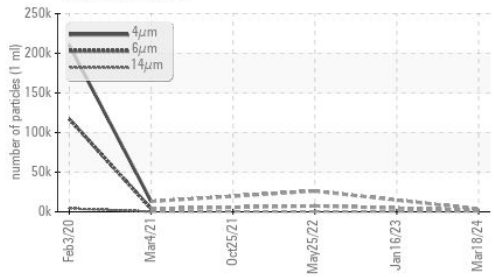
OIL ANALYSIS REPORT

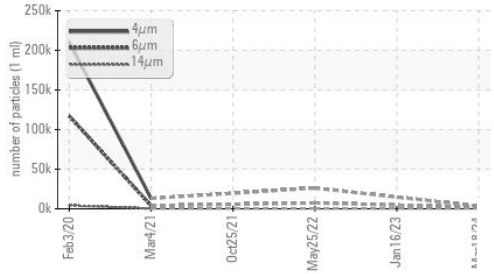
Water (KF)



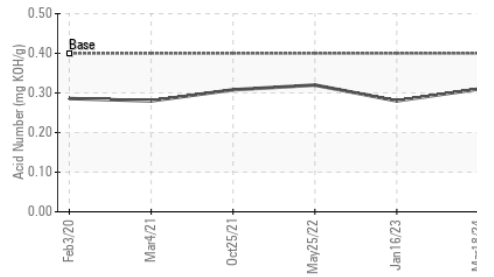
Particle Trend



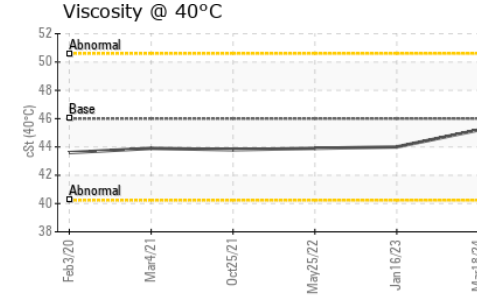
Particle Trend



Acid Number

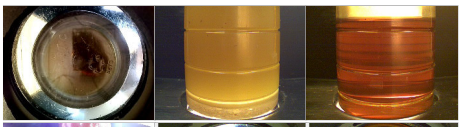
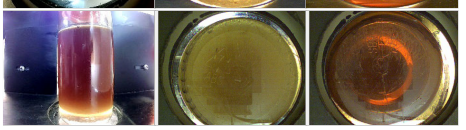


Viscosity @ 40°C



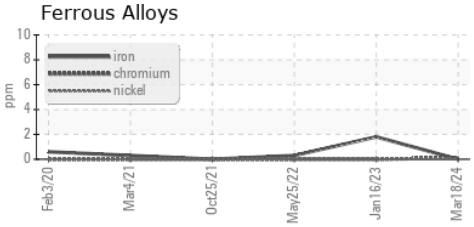
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	**NONE**	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	**NONE**	NONE	NONE
Precipitate	scalar	*Visual	NONE	**NONE**	NONE	NONE
Silt	scalar	*Visual	NONE	**NONE**	NONE	NONE
Debris	scalar	*Visual	NONE	**NONE**	▲ MODER	NONE
Sand/Dirt	scalar	*Visual	NONE	**NONE**	NONE	NONE
Appearance	scalar	*Visual	NORML	**NORML**	● HAZY	NORML
Odor	scalar	*Visual	NORML	**NORML**	NORML	NORML
Emulsified Water	scalar	*Visual	>0.05	▲ **0.2%**	▲ 0.2%	NEG
Free Water	scalar	*Visual		▲ **>10%**	▲ 10.0	NEG

FLUID PROPERTIES		method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	46	**45.2**	44.0	43.9

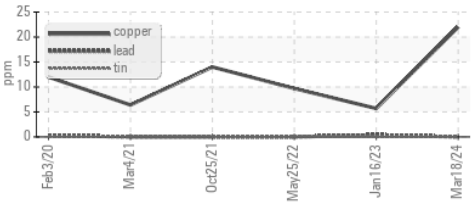
SAMPLE IMAGES	method	limit/base	current	history1	history2
Color					
Bottom					

GRAPHS

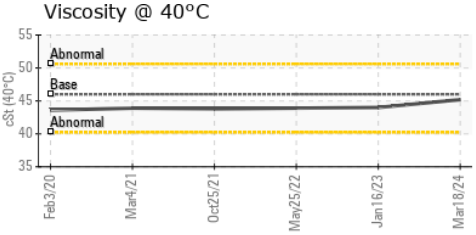
Ferrous Alloys



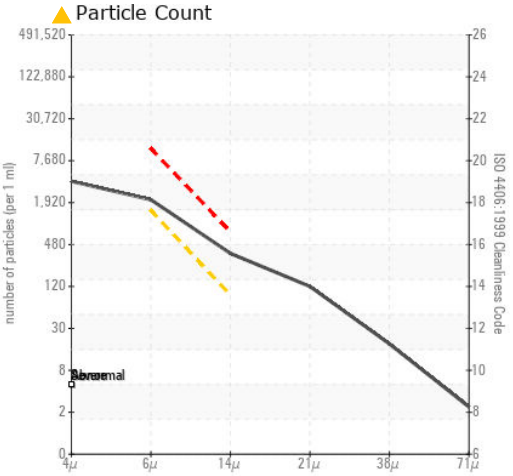
Non-ferrous Metals



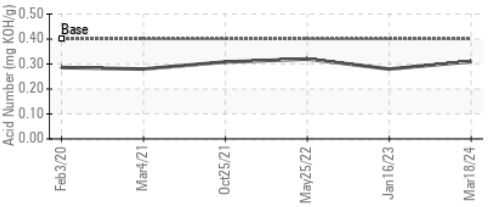
Viscosity @ 40°C



Particle Count



Acid Number



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : KCPA013802
Lab Number : 06143730
Unique Number : 10968538
Test Package : IND 2 (Additional Tests: KF, PrtCount)

Received : 09 Apr 2024
Tested : 15 Apr 2024
Diagnosed : 15 Apr 2024 - Jonathan Hester

Certificate L2367

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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ALPHARETTA, GA
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Report Id: RBMALP [WUSCAR] 06143730 (Generated: 04/15/2024 17:07:52) Rev: 1
Contact/Location: J SWEENEY - RBMALP