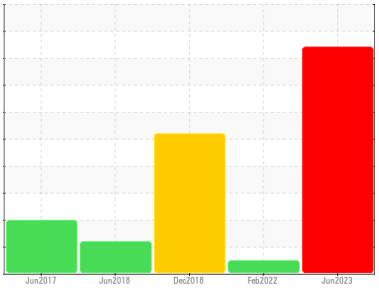
PROBLEM SUMMARY

Sample Rating Trend

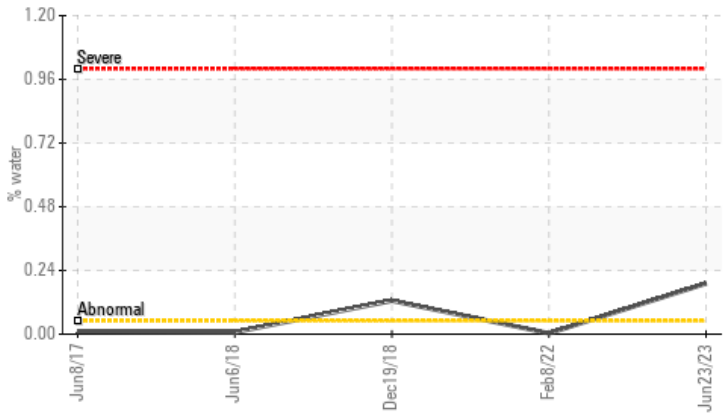


WATER

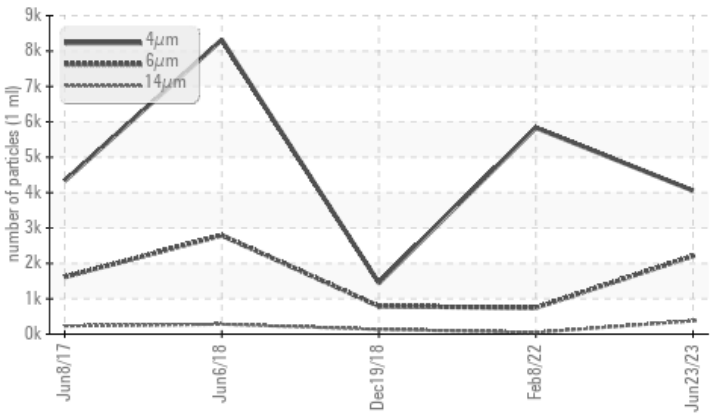
Machine Id
KAESER SM 7.5 4492568 (S/N 1077)
Component
Compressor
Fluid
KAESER SIGMA (OEM) M-460 (--- GAL)

COMPONENT CONDITION SUMMARY

Water



Particle Trend



RECOMMENDATION

Oil and 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				SEVERE	NORMAL	ABNORMAL
Water	%	ASTM D6304	>0.05	▲ **0.191**	0.003	▲ 0.126
ppm Water	ppm	ASTM D6304	>500	▲ **1910**	26.4	▲ 1260
Particles >6µm		ASTM D7647	>1300	▲ **2208**	744	789
Particles >14µm		ASTM D7647	>80	▲ **376**	49	▲ 134
Particles >21µm		ASTM D7647	>20	▲ **127**	13	▲ 45
Particles >38µm		ASTM D7647	>4	▲ **20**	0	▲ 7
Oil Cleanliness		ISO 4406 (c)	>--/17/13	▲ **19/18/16**	17/13	▲ 17/14
Emulsified Water	scalar	*Visual	>0.05	▲ **0.2%**	NEG	▲ 0.2%
Free Water	scalar	*Visual		⬢ **10.0**	NEG	▲ 2.0

Customer Id: DEDWAR
Sample No.: KC111295
Lab Number: 05933588
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

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

08 Feb 2022 Diag: Angela Borella

NORMAL

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

19 Dec 2018 Diag: Angela Borella

WATER

The filter change at the time of sampling has been noted. We recommend an early resample in 500 hours to monitor this condition.All component wear rates are normal. There is a moderate amount of particulates present in the oil. There is a light concentration of water present in the oil. Free water present. The AN level is acceptable for this fluid. The condition of the oil is acceptable for the time in service.

view report

06 Jun 2018 Diag: Doug Bogart

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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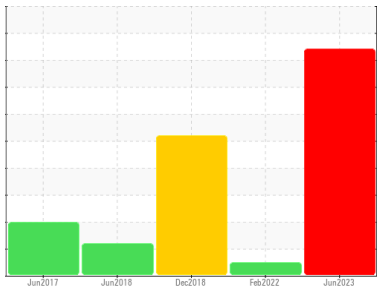
OIL ANALYSIS REPORT

Sample Rating Trend



WATER

Machine Id
KAESER SM 7.5 4492568 (S/N 1077)
Component
Compressor
Fluid
KAESER SIGMA (OEM) M-460 (--- GAL)

DIAGNOSIS

Recommendation
Oil and filter change at the time of sampling has been noted. 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. There is a light concentration of water present in the oil. Excessive free water present.

Fluid Condition
The AN level is acceptable for this fluid.

SAMPLE INFORMATION		method	limit/base	current	history1	history2
Sample Number		Client Info		**KC111295**	KC95639	KC79225
Sample Date		Client Info		**23 Jun 2023**	08 Feb 2022	19 Dec 2018
Machine Age	hrs	Client Info		**21049**	18162	13091
Oil Age	hrs	Client Info		**21049**	3059	0
Oil Changed		Client Info		**Changed**	Changed	Not Changd
Sample Status				**SEVERE**	NORMAL	ABNORMAL

WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>50	**0**	<1	<1
Chromium	ppm	ASTM D5185m	>10	**0**	0	0
Nickel	ppm	ASTM D5185m	>3	**0**	0	<1
Titanium	ppm	ASTM D5185m	>3	**0**	0	0
Silver	ppm	ASTM D5185m	>2	**0**	0	0
Aluminum	ppm	ASTM D5185m	>10	**0**	<1	<1
Lead	ppm	ASTM D5185m	>10	**0**	0	0
Copper	ppm	ASTM D5185m	>50	**7**	10	5
Tin	ppm	ASTM D5185m	>10	**0**	<1	0
Antimony	ppm	ASTM D5185m		**---**	0	0
Vanadium	ppm	ASTM D5185m		**0**	0	0
Cadmium	ppm	ASTM D5185m		**0**	0	<1

ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	**0**	2	<1
Barium	ppm	ASTM D5185m	90	**2**	0	0
Molybdenum	ppm	ASTM D5185m	0	**0**	0	0
Manganese	ppm	ASTM D5185m		**0**	0	0
Magnesium	ppm	ASTM D5185m	100	**2**	0	15
Calcium	ppm	ASTM D5185m	0	**0**	0	<1
Phosphorus	ppm	ASTM D5185m	0	**0**	3	3
Zinc	ppm	ASTM D5185m	0	**16**	2	24

CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	**0**	<1	<1
Sodium	ppm	ASTM D5185m		**0**	<1	2
Potassium	ppm	ASTM D5185m	>20	**1**	0	0
Water	%	ASTM D6304	>0.05	▲ **0.191**	0.003	▲ 0.126
ppm Water	ppm	ASTM D6304	>500	▲ **1910**	26.4	▲ 1260

FLUID CLEANLINESS		method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647		**4054**	5832	1448
Particles >6µm		ASTM D7647	>1300	▲ **2208**	744	789
Particles >14µm		ASTM D7647	>80	▲ **376**	49	▲ 134
Particles >21µm		ASTM D7647	>20	▲ **127**	13	▲ 45
Particles >38µm		ASTM D7647	>4	▲ **20**	0	▲ 7
Particles >71µm		ASTM D7647	>3	**2**	0	0
Oil Cleanliness		ISO 4406 (c)	>--/17/13	▲ **19/18/16**	17/13	▲ 17/14

FLUID DEGRADATION		method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045	1.0	**0.34**	0.43	0.357

KAESER COMPRESSORS
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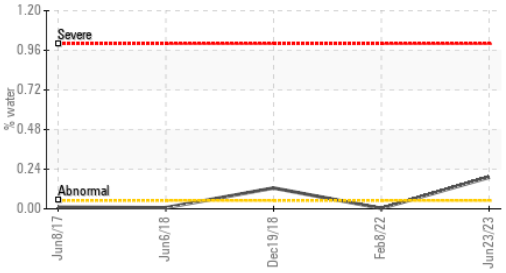
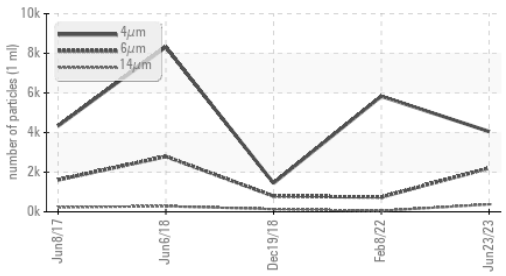
OIL ANALYSIS REPORT

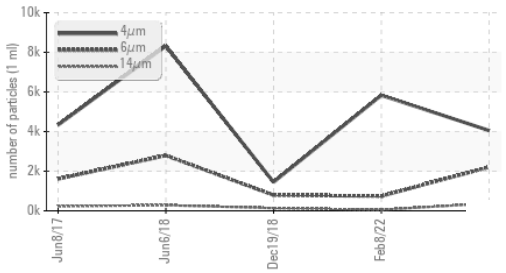
Water



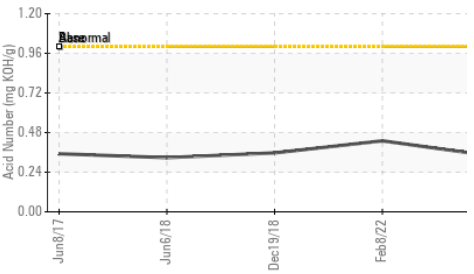
Particle Trend



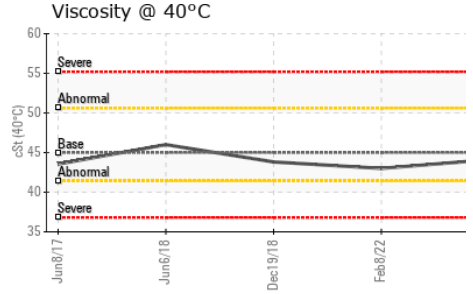
Particle Trend



Acid Number

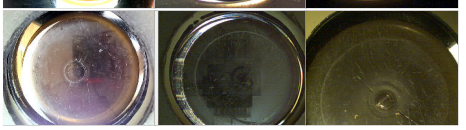


Viscosity @ 40°C



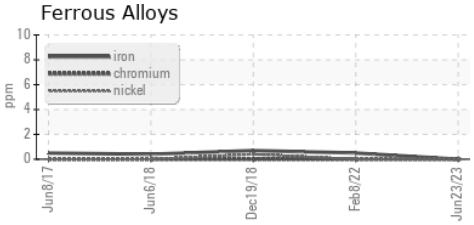
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	**NONE**	LIGHT	NONE
Yellow Metal	scalar	*Visual	NONE	**NONE**	NONE	NONE
Precipitate	scalar	*Visual	NONE	**NONE**	NONE	NONE
Silt	scalar	*Visual	NONE	**NONE**	NONE	NONE
Debris	scalar	*Visual	NONE	**LIGHT**	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	**NONE**	NONE	NONE
Appearance	scalar	*Visual	NORML	**NORML**	NORML	▲ HAZY
Odor	scalar	*Visual	NORML	**NORML**	NORML	NORML
Emulsified Water	scalar	*Visual	>0.05	▲ **0.2%**	NEG	▲ 0.2%
Free Water	scalar	*Visual		⬢ **10.0**	NEG	▲ 2.0

FLUID PROPERTIES		method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	45	**44.1**	43.0	43.82

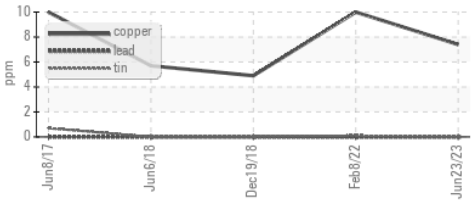
SAMPLE IMAGES	method	limit/base	current	history1	history2
Color					
Bottom					

GRAPHS

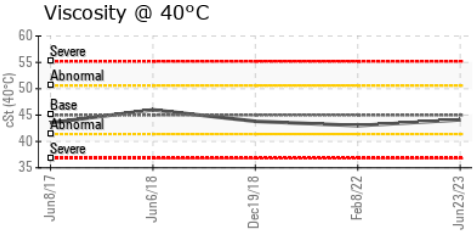
Ferrous Alloys



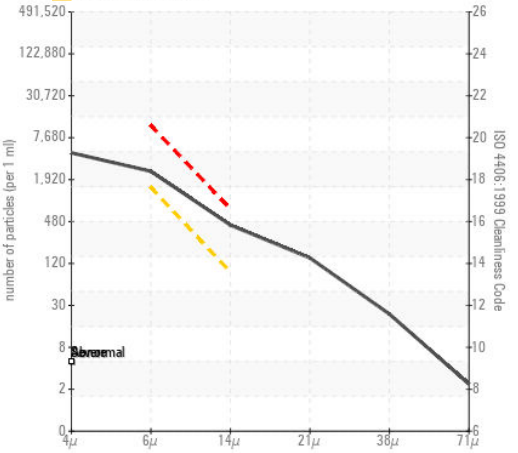
Non-ferrous Metals



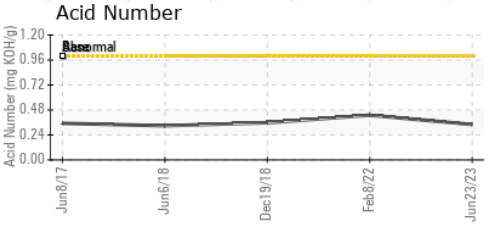
Viscosity @ 40°C



Particle Count



Acid Number



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : KC111295
Lab Number : 05933588
Unique Number : 10618859
Test Package : IND 2

Received : 24 Aug 2023
Diagnosed : 25 Aug 2023
Diagnostician : Don Baldridge

DEDICATED MACHINE
6855 MILLER RD
WARREN, MI
US 48092
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: