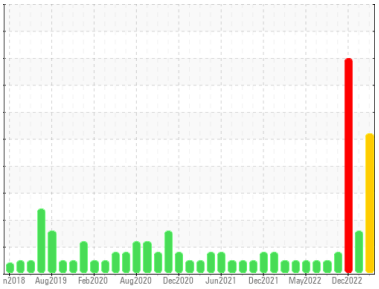
PROBLEM SUMMARY

Sample Rating Trend

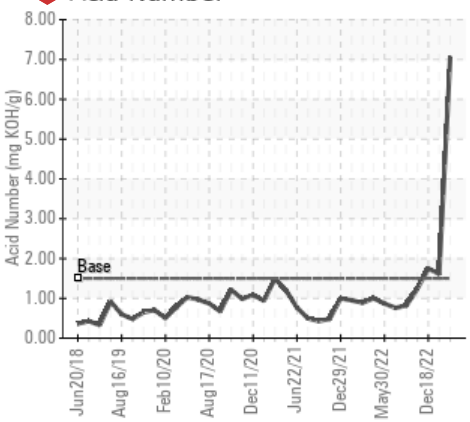


DEGRADATION

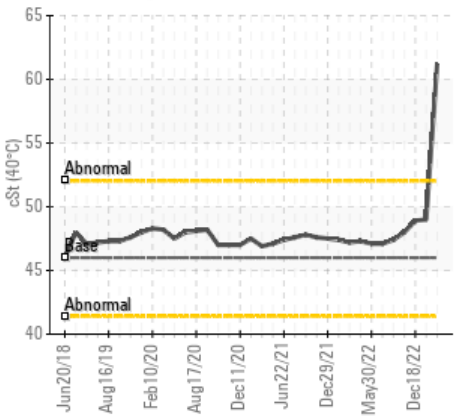
Machine Id
KAESER FSD 450 6151298 (S/N 1026)
Component
Compressor
Fluid
KAESER SIGMA (OEM) FG-460 (--- GAL)

COMPONENT CONDITION SUMMARY

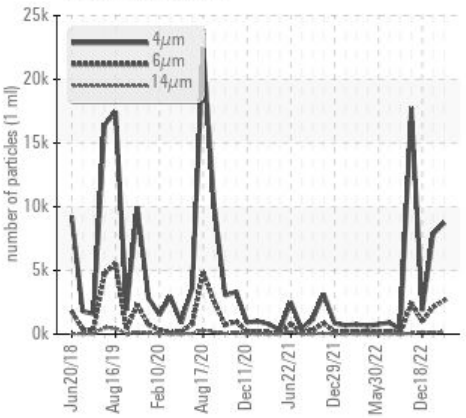
Acid Number



Viscosity @ 40°C



Particle Trend



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				SEVERE	ATTENTION	SEVERE
Particles >6µm		ASTM D7647	>1300	▲ **2650**	▲ 2119	1018
Particles >14µm		ASTM D7647	>80	▲ **198**	▲ 128	▲ 173
Particles >21µm		ASTM D7647	>20	▲ **46**	▲ 28	▲ 58
Oil Cleanliness		ISO 4406 (c)	>--/17/13	▲ **20/19/15**	▲ 20/18/14	▲ 18/17/15
Acid Number (AN)	mg KOH/g	ASTM D8045	1.5	⬢ **7.06**	1.61	1.75
Visc @ 40°C	cSt	ASTM D445	46	▲ **61.2**	49.0	48.9

Customer Id: SEDMOU
Sample No.: KC125032
Lab Number: 05999887
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

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

15 Mar 2023 Diag: Doug Bogart

ISO

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 moderate 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

18 Dec 2022 Diag: Jonathan Hester

WATER

We recommend you service the filters on this component. 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 high amount of particulates 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

11 Nov 2022 Diag: Angela Borella

ISO

Resample at the next service interval to monitor.All component wear rates are normal. There is a moderate amount of silt (particulates < 14 microns in size) 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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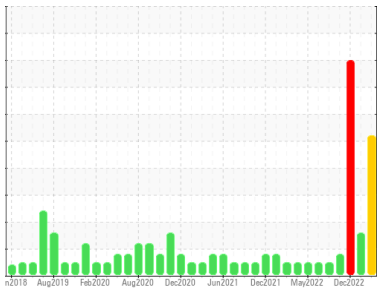
OIL ANALYSIS REPORT

Sample Rating Trend



DEGRADATION

Machine Id
KAESER FSD 450 6151298 (S/N 1026)
Component
Compressor
Fluid
KAESER SIGMA (OEM) FG-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
All component wear rates are normal.

Contamination
There is a high amount of particulates present in the oil.

Fluid Condition
The AN level is above the recommended limit. The oil viscosity is higher than normal. The oil is no longer serviceable.

SAMPLE INFORMATION		method	limit/base	current	history1	history2
Sample Number		Client Info		**KC125032**	KCPA000465	KC100138
Sample Date		Client Info		**27 Oct 2023**	15 Mar 2023	18 Dec 2022
Machine Age	hrs	Client Info		**37418**	33543	32362
Oil Age	hrs	Client Info		**0**	0	7118
Oil Changed		Client Info		**N/A**	N/A	Not Changd
Sample Status				**SEVERE**	ATTENTION	SEVERE

WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>50	**<1**	<1	<1
Chromium	ppm	ASTM D5185m	>10	**0**	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	**5**	9	3
Lead	ppm	ASTM D5185m	>10	**0**	0	0
Copper	ppm	ASTM D5185m	>50	**5**	1	2
Tin	ppm	ASTM D5185m	>10	**0**	0	0
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		**0**	0	0
Molybdenum	ppm	ASTM D5185m		**0**	0	0
Manganese	ppm	ASTM D5185m		**0**	<1	0
Magnesium	ppm	ASTM D5185m		**0**	0	<1
Calcium	ppm	ASTM D5185m		**0**	0	0
Phosphorus	ppm	ASTM D5185m	500	**132**	122	38
Zinc	ppm	ASTM D5185m		**0**	0	1

CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	**0**	0	0
Sodium	ppm	ASTM D5185m		**3**	1	0
Potassium	ppm	ASTM D5185m	>20	**0**	2	1
Water	%	ASTM D6304	>0.05	**0.014**	0.006	▲ 0.098
ppm Water	ppm	ASTM D6304	>500	**144.0**	66.9	▲ 980

FLUID CLEANLINESS		method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647		**8735**	7892	1868
Particles >6µm		ASTM D7647	>1300	▲ **2650**	▲ 2119	1018
Particles >14µm		ASTM D7647	>80	▲ **198**	▲ 128	▲ 173
Particles >21µm		ASTM D7647	>20	▲ **46**	▲ 28	▲ 58
Particles >38µm		ASTM D7647	>4	**2**	2	▲ 9
Particles >71µm		ASTM D7647	>3	**0**	0	1
Oil Cleanliness		ISO 4406 (c)	>--/17/13	▲ **20/19/15**	▲ 20/18/14	▲ 18/17/15

FLUID DEGRADATION		method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045	1.5	● **7.06**	1.61	1.75

KAESER COMPRESSORS
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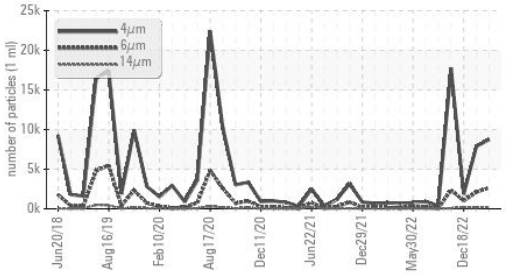
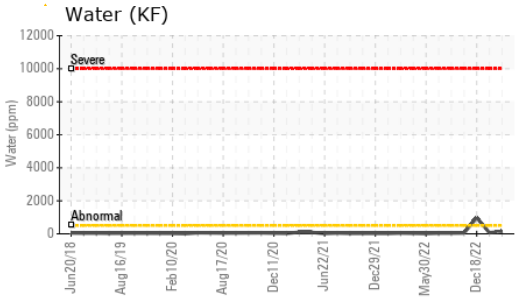
OIL ANALYSIS REPORT

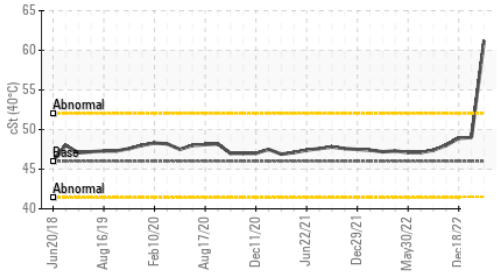
Particle Trend



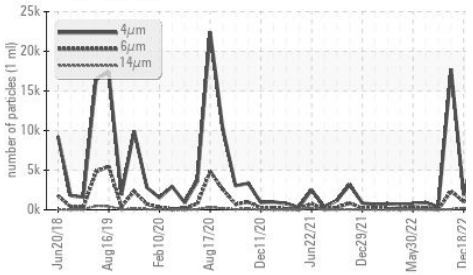
Water (KF)



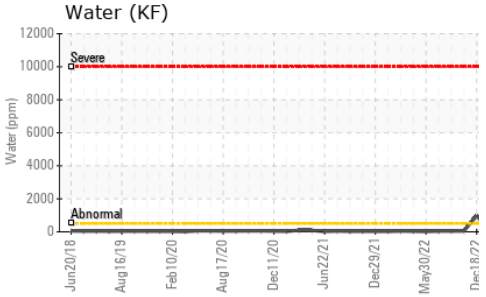
Viscosity @ 40°C



Particle Trend

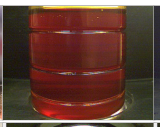
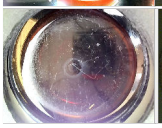
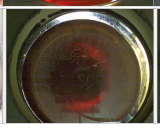
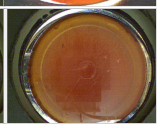


Water (KF)



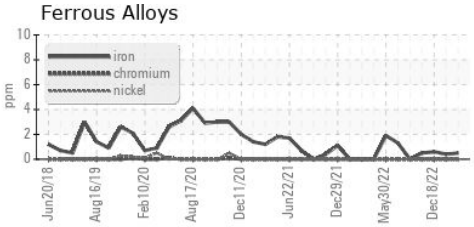
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	**NONE**	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	**NONE**	NONE	NONE
Precipitate	scalar	*Visual	NONE	**NONE**	NONE	NONE
Silt	scalar	*Visual	NONE	**NONE**	NONE	NONE
Debris	scalar	*Visual	NONE	**NONE**	LIGHT	NONE
Sand/Dirt	scalar	*Visual	NONE	**NONE**	NONE	NONE
Appearance	scalar	*Visual	NORML	**NORML**	NORML	NORML
Odor	scalar	*Visual	NORML	**NORML**	NORML	NORML
Emulsified Water	scalar	*Visual	>0.05	**NEG**	NEG	0.2%
Free Water	scalar	*Visual		**NEG**	NEG	⬢ 1.0

FLUID PROPERTIES		method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	46	▲ **61.2**	49.0	48.9

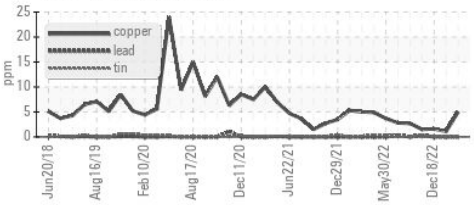
SAMPLE IMAGES	method	limit/base	current	history1	history2
Color					
Bottom					

GRAPHS

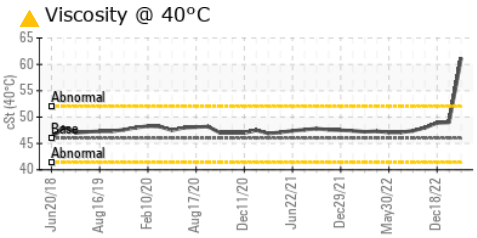
Ferrous Alloys



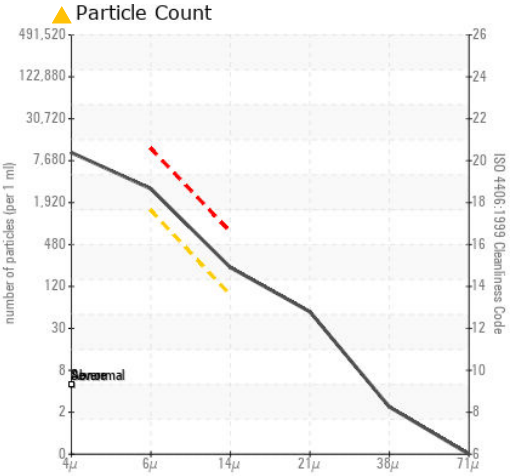
Non-ferrous Metals



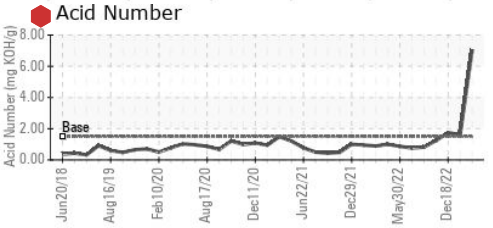
Viscosity @ 40°C



Particle Count



Acid Number



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : KC125032
Lab Number : 05999887
Unique Number : 10728247
Test Package : IND 2

Received : 06 Nov 2023
Diagnosed : 08 Nov 2023
Diagnostician : Jonathan Hester

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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