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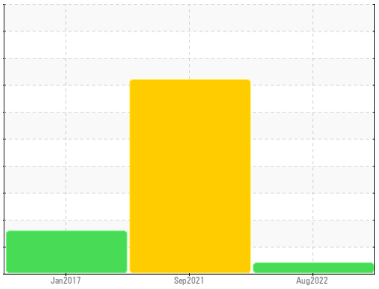
PROBLEM SUMMARY

Sample Rating Trend



VIS DEBRIS

Machine Id
KAESER CSD 125 5313826 (S/N 1639)
Component
Compressor
Fluid
KAESER SIGMA (OEM) FG-460 (--- QTS)

COMPONENT CONDITION SUMMARY

No relevant graphs to display

RECOMMENDATION

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. We were unable to perform a particle count due to a high concentration of particles present in this sample.

PROBLEMATIC TEST RESULTS

Sample Status				**ABNORMAL**	SEVERE	ABNORMAL
Debris	scalar	*Visual	NONE	▲ **MODER**	LIGHT	NONE

Customer Id: VPEGAR
Sample No.: KCP48102
Lab Number: 05633631
Test Package: IND 2

To manage this report scan the QR code

To discuss the diagnosis or test data:
Doug Bogart +1 (800)237-1369 x4016
dougb@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	---	---	?	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.
Alert	---	---	?	We were unable to perform a particle count due to a high concentration of particles present in this sample.

HISTORICAL DIAGNOSIS

23 Sep 2021 Diag: Doug Bogart

DEGRADATION

Recommend drain oil if not already done and flush with cleaner before refilling with oil. We recommend an early resample in 500 hours to monitor this condition.An increase in the iron level is noted. There is a light concentration of water present in the oil. The AN level is above the recommended limit. The oil viscosity is higher than normal. Additive levels indicate the addition of a different brand, or type of oil. Confirm oil type.

view report

13 Jan 2017 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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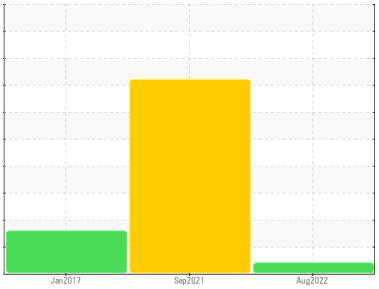
OIL ANALYSIS REPORT

Sample Rating Trend



VIS DEBRIS

Machine Id
KAESER CSD 125 5313826 (S/N 1639)
Component
Compressor
Fluid
KAESER SIGMA (OEM) FG-460 (--- QTS)

DIAGNOSIS

Recommendation
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. We were unable to perform a particle count due to a high concentration of particles present in this sample.

Wear
All component wear rates are normal.

Contamination
Moderate concentration of visible dirt/debris present in the oil.

Fluid Condition
The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

SAMPLE INFORMATION		method	limit/base	current	history 1	history 2
Sample Number				**KCP48102**	KCP36555	KCP60907
Sample Date				**19 Aug 2022**	23 Sep 2021	13 Jan 2017
Machine Age	hrs			**38124**	34196	6209
Oil Age	hrs			**3928**	0	6209
Oil Changed				**Changed**	Not Changd	Changed
Sample Status				**ABNORMAL**	SEVERE	ABNORMAL

WEAR METALS		method	limit/base	current	history 1	history 2
Iron	ppm	ASTM D5185m	>50	**0**	▲ 24	0
Chromium	ppm	ASTM D5185m	>10	**0**	<1	0
Nickel	ppm	ASTM D5185m	>3	**0**	<1	0
Titanium	ppm	ASTM D5185m	>3	**0**	<1	0
Silver	ppm	ASTM D5185m	>2	**0**	<1	<1
Aluminum	ppm	ASTM D5185m	>10	**<1**	6	0
Lead	ppm	ASTM D5185m	>10	**<1**	<1	0
Copper	ppm	ASTM D5185m	>50	**3**	4	14
Tin	ppm	ASTM D5185m	>10	**<1**	<1	0
Antimony	ppm	ASTM D5185m		**---**	0	0
Vanadium	ppm	ASTM D5185m		**0**	<1	0
Cadmium	ppm	ASTM D5185m		**0**	<1	0

ADDITIVES		method	limit/base	current	history 1	history 2
Boron	ppm	ASTM D5185m		**0**	4	0
Barium	ppm	ASTM D5185m		**2**	0	0
Molybdenum	ppm	ASTM D5185m		**0**	0	<1
Manganese	ppm	ASTM D5185m		**0**	1	0
Magnesium	ppm	ASTM D5185m		**0**	6	<1
Calcium	ppm	ASTM D5185m		**0**	4	0
Phosphorus	ppm	ASTM D5185m	500	**10**	▲ 250	2
Zinc	ppm	ASTM D5185m		**<1**	▲ 81	<1
Sulfur	ppm	ASTM D5185m		**1571**	▲ 358	12710

CONTAMINANTS		method	limit/base	current	history 1	history 2
Silicon	ppm	ASTM D5185m	>25	**0**	<1	<1
Sodium	ppm	ASTM D5185m		**0**	8	<1
Potassium	ppm	ASTM D5185m	>20	**1**	4	5
Water	%	ASTM D6304	>0.05	**0.007**	▲ 0.222	0.006
ppm Water	ppm	ASTM D6304	>500	**79.2**	▲ 2223.9	60

FLUID CLEANLINESS		method	limit/base	current	history 1	history 2
Particles >4µm		ASTM D7647		**---**	840	2333
Particles >6µm		ASTM D7647	>1300	**---**	165	1271
Particles >14µm		ASTM D7647	>80	**---**	14	▲ 216
Particles >21µm		ASTM D7647	>20	**---**	4	▲ 73
Particles >38µm		ASTM D7647	>4	**---**	0	▲ 11
Particles >71µm		ASTM D7647	>3	**---**	0	1
Oil Cleanliness		ISO 4406 (c)	>--/17/13	**---**	15/11	▲ 17/15

FLUID DEGRADATION		method	limit/base	current	history 1	history 2
Acid Number (AN)	mg KOH/g	ASTM D8045	1.5	**0.15**	⬢ 4.942	0.308

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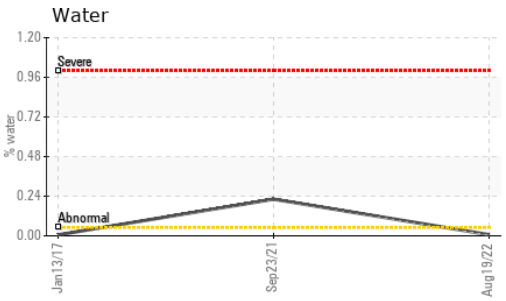
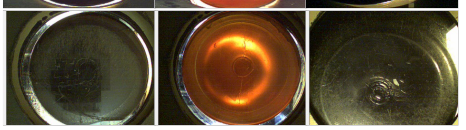
OIL ANALYSIS REPORT

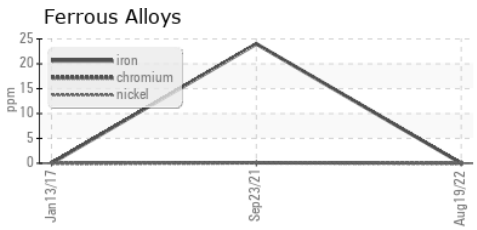


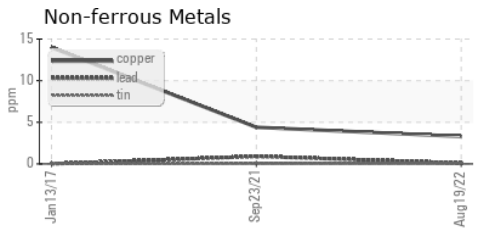
VISUAL		method	limit/base	current	history 1	history 2
White Metal	scalar	*Visual	NONE	**NONE**	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	**NONE**	NONE	NONE
Precipitate	scalar	*Visual	NONE	**NONE**	NONE	NONE
Silt	scalar	*Visual	NONE	**NONE**	NONE	NONE
Debris	scalar	*Visual	NONE	▲ **MODER**	LIGHT	NONE
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	NEG
Free Water	scalar	*Visual		**NEG**	NEG	NEG

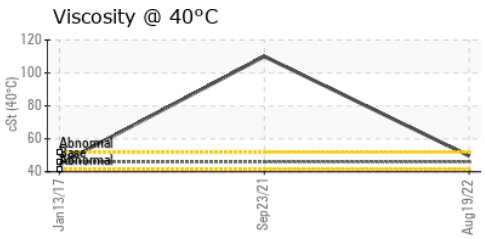
FLUID PROPERTIES		method	limit/base	current	history 1	history 2
Visc @ 40°C	cSt	ASTM D445	46	**49.6**	▲ 110	44.6

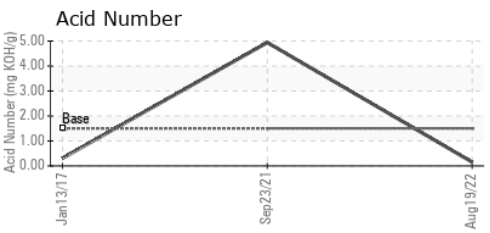
SAMPLE IMAGES	method	limit/base	current	history 1	history 2
Color					
Bottom					

GRAPHS









Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : KCP48102 **Received** : 02 Sep 2022
Lab Number : 05633631 **Diagnosed** : 06 Sep 2022
Unique Number : 10118152 **Diagnostician** : Doug Bogart
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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