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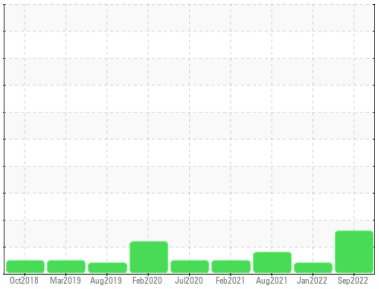
PROBLEM SUMMARY

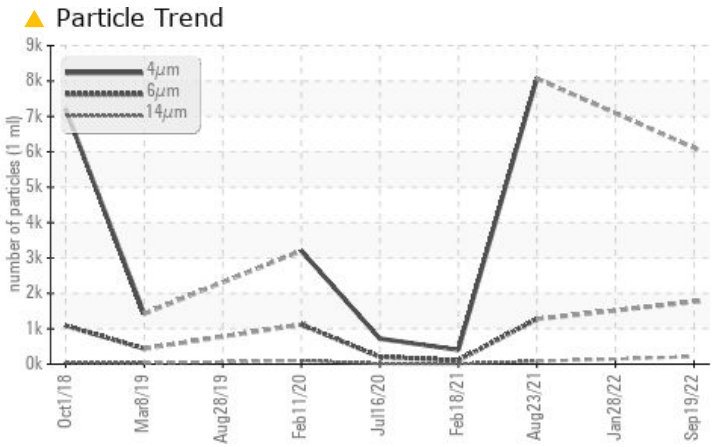
Sample Rating Trend



ISO

Machine Id
KAESER AS 25 4669347 (S/N 1132)
Component
Compressor
Fluid
KAESER SIGMA (OEM) S-460 (--- GAL)

COMPONENT CONDITION SUMMARY



RECOMMENDATION

The filter change at the time of sampling has been noted. Resample at the next service interval to monitor.

PROBLEMATIC TEST RESULTS

Sample Status				ABNORMAL	ABNORMAL	ATTENTION
Particles >6µm		ASTM D7647	>1300	▲ **1761**	---	1272
Particles >14µm		ASTM D7647	>80	▲ **208**	---	▲ 81
Particles >21µm		ASTM D7647	>20	▲ **56**	---	▲ 25
Oil Cleanliness		ISO 4406 (c)	>--/17/13	▲ **20/18/15**	---	▲ 17/14

Customer Id: SIENEWKC
Sample No.: KC91421
Lab Number: 05646629
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

28 Jan 2022 Diag: Don Baldridge

VIS DEBRIS

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.All component wear rates are normal. Moderate concentration of visible dirt/debris present in the oil. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

view report

23 Aug 2021 Diag: Don Baldridge

ISO

The 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 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 Feb 2021 Diag: Don Baldridge

NORMAL

Resample at the next service interval to monitor.All component wear rates are normal. The amount and size of particulates present in the system are acceptable. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

view report

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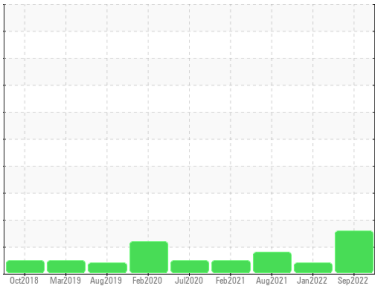
OIL ANALYSIS REPORT

Sample Rating Trend



ISO

Machine Id
KAESER AS 25 4669347 (S/N 1132)
Component
Compressor
Fluid
KAESER SIGMA (OEM) S-460 (--- GAL)

DIAGNOSIS

Recommendation
The filter change at the time of sampling has been noted. Resample at the next service interval to monitor.

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 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			**KC91421**	KC85802	KC92557
Sample Date			**19 Sep 2022**	28 Jan 2022	23 Aug 2021
Machine Age	hrs		**46909**	43632	39926
Oil Age	hrs		**3300**	6000	3000
Oil Changed			**Not Changd**	Changed	Not Changd
Sample Status			**ABNORMAL**	ABNORMAL	ATTENTION

WEAR METALS		method	limit/base	current	history 1	history 2
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	**<1**	<1	0
Lead	ppm	ASTM D5185m	>10	**0**	0	0
Copper	ppm	ASTM D5185m	>50	**2**	5	2
Tin	ppm	ASTM D5185m	>10	**0**	0	<1
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	history 1	history 2
Boron	ppm	ASTM D5185m		**0**	3	<1
Barium	ppm	ASTM D5185m	90	**21**	0	0
Molybdenum	ppm	ASTM D5185m		**0**	0	0
Manganese	ppm	ASTM D5185m		**0**	0	<1
Magnesium	ppm	ASTM D5185m	90	**51**	27	47
Calcium	ppm	ASTM D5185m	2	**<1**	0	<1
Phosphorus	ppm	ASTM D5185m		**2**	2	7
Zinc	ppm	ASTM D5185m		**2**	2	0

CONTAMINANTS		method	limit/base	current	history 1	history 2
Silicon	ppm	ASTM D5185m	>25	**<1**	<1	<1
Sodium	ppm	ASTM D5185m		**12**	14	13
Potassium	ppm	ASTM D5185m	>20	**0**	0	2
Water	%	ASTM D6304	>0.05	**0.026**	0.008	0.026
ppm Water	ppm	ASTM D6304	>500	**261.6**	84.2	260.6

FLUID CLEANLINESS	method	limit/base	current	history 1	history 2
Particles >4µm	ASTM D7647		**6109**	---	8071
Particles >6µm	ASTM D7647	>1300	▲ **1761**	---	1272
Particles >14µm	ASTM D7647	>80	▲ **208**	---	▲ 81
Particles >21µm	ASTM D7647	>20	▲ **56**	---	▲ 25
Particles >38µm	ASTM D7647	>4	**3**	---	3
Particles >71µm	ASTM D7647	>3	**0**	---	0
Oil Cleanliness	ISO 4406 (c)	>--/17/13	▲ **20/18/15**	---	▲ 17/14

FLUID DEGRADATION		method	limit/base	current	history 1	history 2
Acid Number (AN)	mg KOH/g	ASTM D8045	0.4	**0.34**	0.32	0.323

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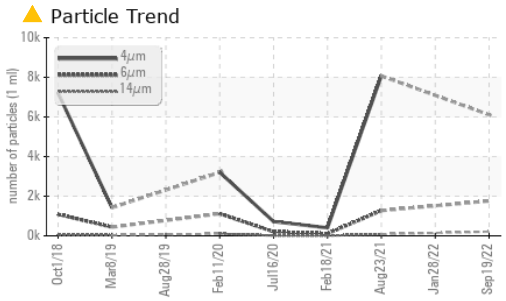
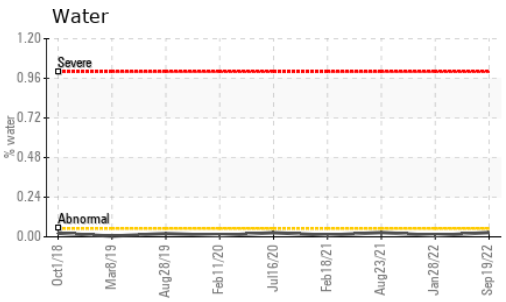
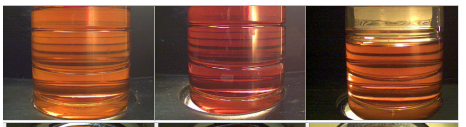
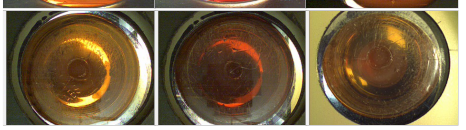
OIL ANALYSIS REPORT



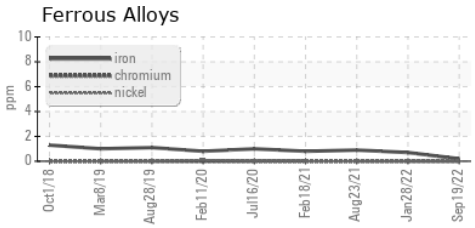


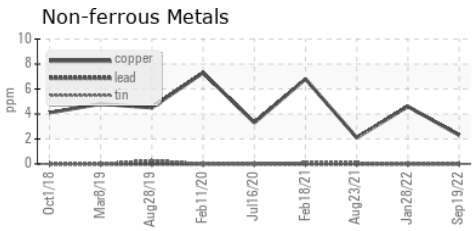
VISUAL		method	limit/base	current	history 1	history 2
White Metal	scalar	*Visual	NONE	**NONE**	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	**NONE**	NONE	NONE
Precipitate	scalar	*Visual	NONE	**NONE**	NONE	NONE
Silt	scalar	*Visual	NONE	**NONE**	NONE	NONE
Debris	scalar	*Visual	NONE	**NONE**	▲ MODER	NONE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

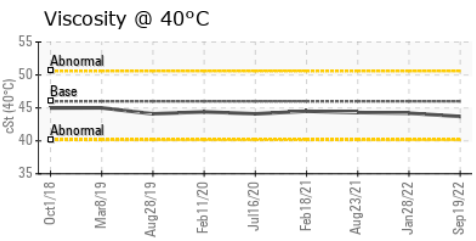
FLUID PROPERTIES		method	limit/base	current	history 1	history 2
Visc @ 40°C	cSt	ASTM D445	46	**43.7**	44.2	44.3

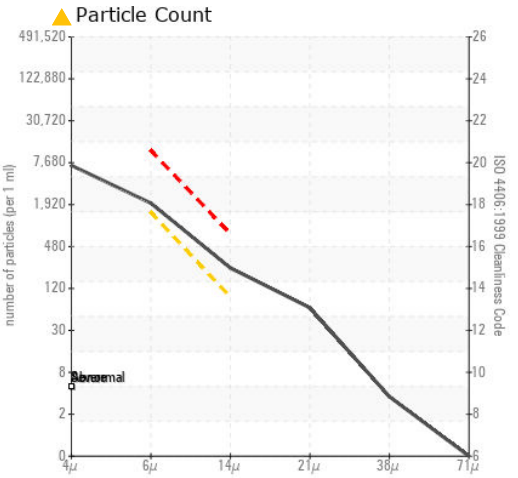
SAMPLE IMAGES	method	limit/base	current	history 1	history 2
Color					
Bottom					

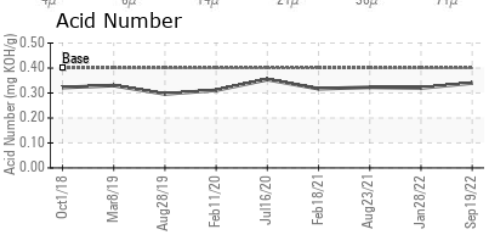
GRAPHS











Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : KC91421
Lab Number : 05646629
Unique Number : 10141168
Test Package : IND 2

Received : 20 Sep 2022
Diagnosed : 22 Sep 2022
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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USA 15068
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