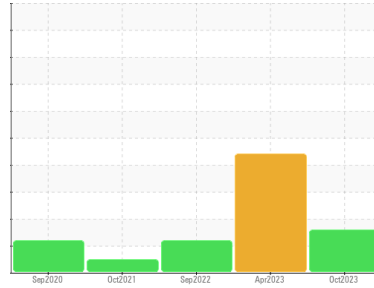




PROBLEM SUMMARY

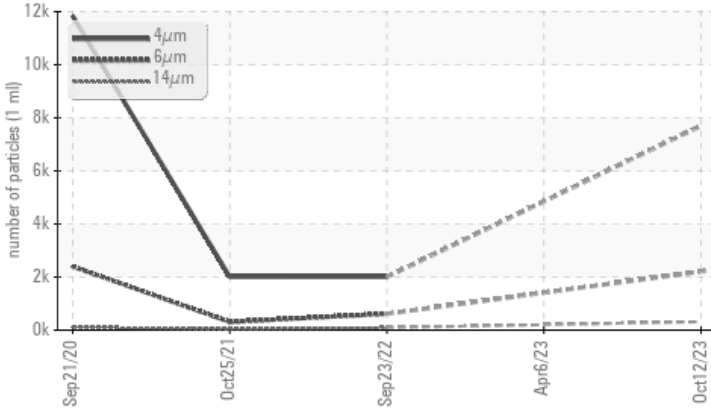
Sample Rating Trend



Machine Id
KAESER BSD 50 7096769 (S/N 2180)
 Component
Compressor
 Fluid
KAESER SIGMA (OEM) FG-460 (--- GAL)

COMPONENT CONDITION SUMMARY

▲ Particle Trend



RECOMMENDATION

No corrective action is recommended at this time. The filter change at the time of sampling has been noted. Resample at the next service interval to monitor.

PROBLEMATIC TEST RESULTS

Sample Status	ASTM D7647	ASTM D7647	ABNORMAL	ABNORMAL	ATTENTION
Particles >6µm	>1300	▲ 2210	---	616	
Particles >14µm	>80	▲ 316	---	▲ 88	
Particles >21µm	>20	▲ 112	---	▲ 25	
Oil Cleanliness	ISO 4406 (c) >--/17/13	▲ 20/18/15	---	▲ 18/16/14	

Customer Id: REGTOT
 Sample No.: KC125935
 Lab Number: 05997981
 Test Package: IND 2



To manage this report scan the QR code

To discuss the diagnosis or test data:
 Don Baldrige +1
don.b505@comcast.net

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

06 Apr 2023 Diag: Don Baldrige

WATER



The oil change at the time of sampling has been noted. We recommend you service the filters on this component. We were unable to perform a particle count due to a high concentration of particles present in this sample. We recommend an early resample in 500 hours to monitor this condition. The aluminum level is abnormal. All other component wear rates are normal. Moderate concentration of visible dirt/debris 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.

view report



23 Sep 2022 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 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



25 Oct 2021 Diag: Don Baldrige

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. There is no indication of any contamination in the oil. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

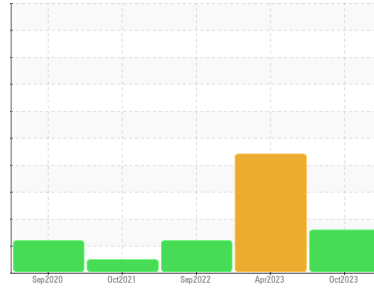
view report





OIL ANALYSIS REPORT

Sample Rating Trend



Machine Id
KAESER BSD 50 7096769 (S/N 2180)

Component
Compressor
 Fluid
KAESER SIGMA (OEM) FG-460 (--- GAL)

DIAGNOSIS

Recommendation

No corrective action is recommended at this time. 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 acceptable for the time in service.

SAMPLE INFORMATION

method	limit/base	current	history1	history2
Sample Number	Client Info	KC125935	KC101762	KC102908
Sample Date	Client Info	12 Oct 2023	06 Apr 2023	23 Sep 2022
Machine Age	hrs	11229	9450	7162
Oil Age	hrs	0	2300	3201
Oil Changed	Client Info	N/A	Changed	Changed
Sample Status		ABNORMAL	ABNORMAL	ATTENTION

WEAR METALS

method	limit/base	current	history1	history2
Iron ppm	ASTM D5185m >50	5	9	2
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	<1
Aluminum ppm	ASTM D5185m >10	10	▲ 12	3
Lead ppm	ASTM D5185m >10	0	0	0
Copper ppm	ASTM D5185m >50	2	2	1
Tin ppm	ASTM D5185m >10	0	<1	<1
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	0	0	0
Molybdenum ppm	ASTM D5185m	0	0	0
Manganese ppm	ASTM D5185m	0	0	<1
Magnesium ppm	ASTM D5185m	<1	<1	0
Calcium ppm	ASTM D5185m	1	0	2
Phosphorus ppm	ASTM D5185m 500	119	249	35
Zinc ppm	ASTM D5185m	60	104	11

CONTAMINANTS

method	limit/base	current	history1	history2
Silicon ppm	ASTM D5185m >25	0	0	0
Sodium ppm	ASTM D5185m	0	0	0
Potassium ppm	ASTM D5185m >20	0	<1	<1
Water %	ASTM D6304 >0.05	0.004	▲ 0.125	0.003
ppm Water	ASTM D6304 >500	42.0	▲ 1250	28.0

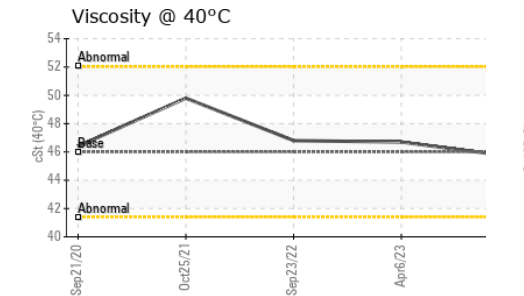
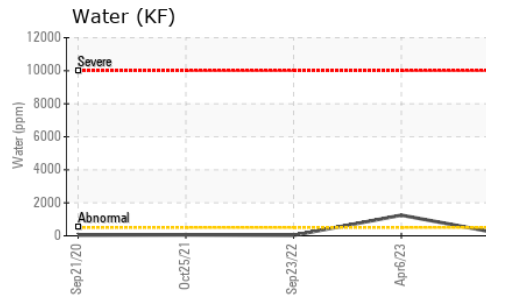
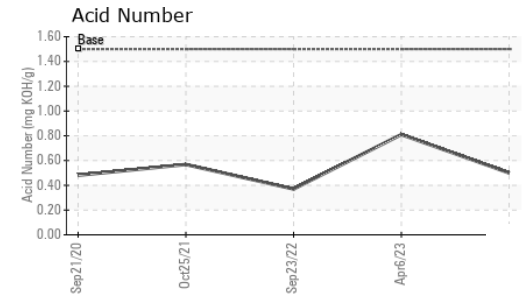
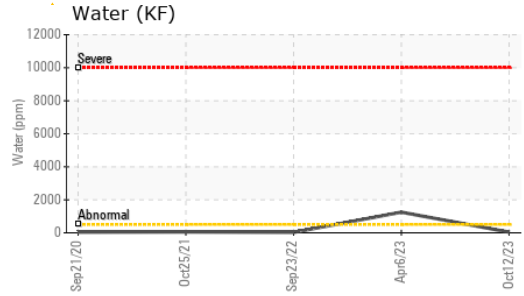
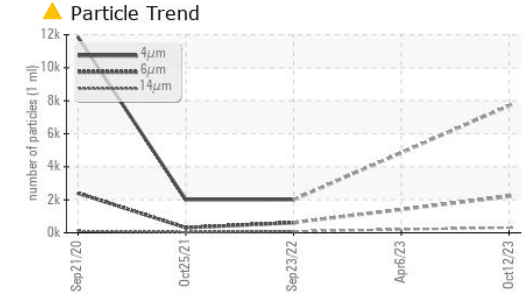
FLUID CLEANLINESS

method	limit/base	current	history1	history2
Particles >4µm	ASTM D7647	7702	---	2005
Particles >6µm	ASTM D7647 >1300	▲ 2210	---	616
Particles >14µm	ASTM D7647 >80	▲ 316	---	▲ 88
Particles >21µm	ASTM D7647 >20	▲ 112	---	▲ 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	---	▲ 18/16/14

FLUID DEGRADATION

method	limit/base	current	history1	history2
Acid Number (AN) mg KOH/g	ASTM D8045 1.5	0.50	0.81	0.37

OIL ANALYSIS REPORT

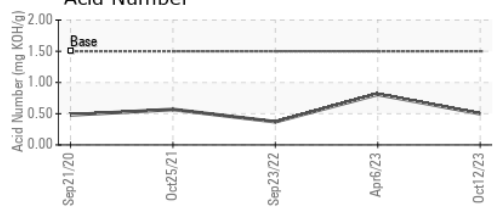
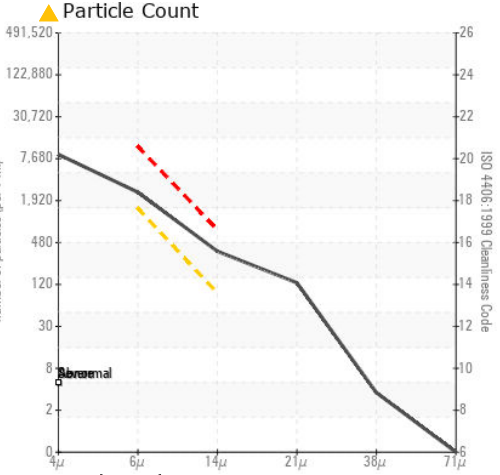
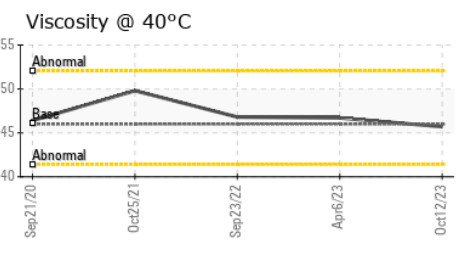
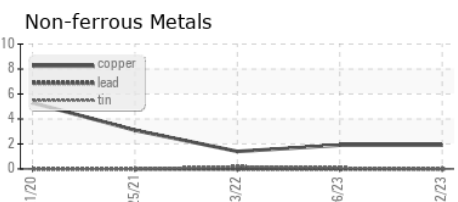
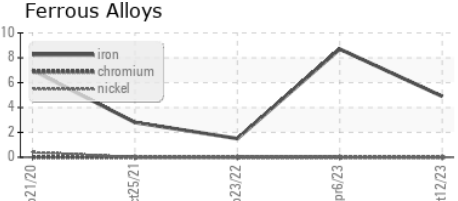


VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	▲ MODER
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE
Appearance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

FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445 46	45.7	46.7	46.8

SAMPLE IMAGES	method	limit/base	current	history1	history2
Color					
Bottom					

GRAPHS



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : KC125935 **Received** : 03 Nov 2023
Lab Number : 05997981 **Diagnosed** : 06 Nov 2023
Unique Number : 10726341 **Diagnostician** : Don Baldrige
Test Package : IND 2

REGAL COMMODITIES
 721 UNION BLVD
 TOTOWA, NJ
 US 07512
 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:
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