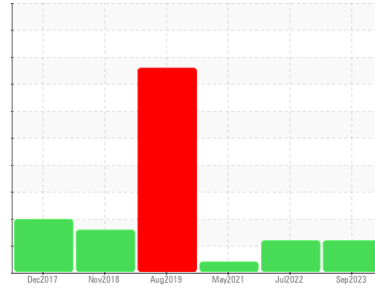




# PROBLEM SUMMARY

Sample Rating Trend



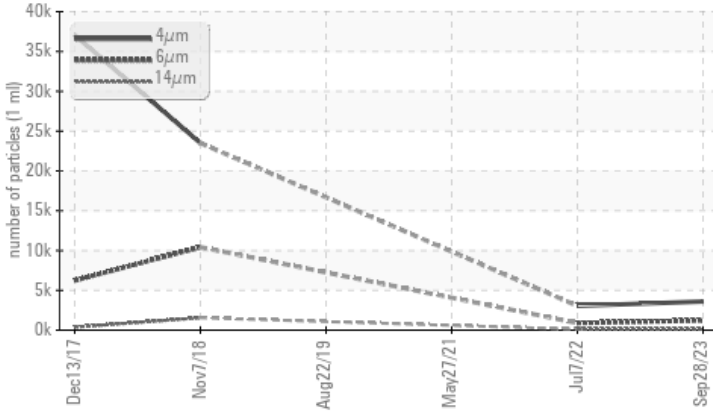
Machine Id  
**KAESER ASD 5 2092688 (S/N 1153)**

Component  
**Compressor**

Fluid  
**KAESER SIGMA (OEM) M-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			ATTENTION	ATTENTION	ABNORMAL
Particles >14µm	ASTM D7647	>80	▲ <b>124</b>	▲ 116	---
Particles >21µm	ASTM D7647	>20	▲ <b>35</b>	▲ 30	---
Oil Cleanliness	ISO 4406 (c)	>17/13	▲ <b>17/14</b>	▲ 17/14	---

Customer Id: JRBKER  
 Sample No.: KCPA006132  
 Lab Number: 05969666  
 Test Package: IND 2



To manage this report scan the QR code

To discuss the diagnosis or test data:  
 Angela Borella +1 800-237-1369  
[angela.borella@wearcheckusa.com](mailto:angela.borella@wearcheckusa.com)

To change component or sample information:  
 Customer Service +1 1-800-237-1369  
[customerservice@wearcheck.com](mailto:customerservice@wearcheck.com)

## RECOMMENDED ACTIONS

*There are no recommended actions for this sample.*

## HISTORICAL DIAGNOSIS

### 07 Jul 2022 Diag: Doug Bogart

#### ISO



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. 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



### 27 May 2021 Diag: Angela Borella

#### VIS DEBRIS



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



### 22 Aug 2019 Diag: Doug Bogart

#### WATER



Oil and filter change at the time of sampling has been noted. We recommend an early resample in 500 hours to monitor this condition. 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. Free water present. There is a moderate concentration of water present in the oil. High concentration of visible dirt/debris present in the oil. The AN level is acceptable for this fluid.

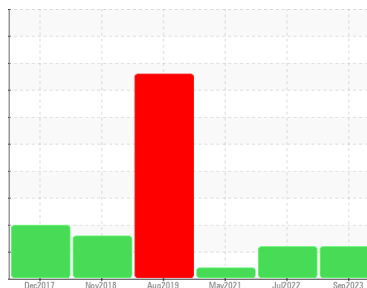
view report



Machine Id  
**KAESER ASD 5 2092688 (S/N 1153)**

Component  
**Compressor**

Fluid  
**KAESER SIGMA (OEM) M-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 moderate 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	history1	history2
Sample Number	Client Info	<b>KCPA006132</b>	KCP51771	KCP32443
Sample Date	Client Info	<b>28 Sep 2023</b>	07 Jul 2022	27 May 2021
Machine Age	hrs	<b>15694</b>	14822	14283
Oil Age	hrs	<b>0</b>	600	2600
Oil Changed	Client Info	<b>N/A</b>	Changed	Changed
Sample Status		<b>ATTENTION</b>	ATTENTION	ABNORMAL

## WEAR METALS

method	limit/base	current	history1	history2	
Iron	ppm	ASTM D5185m >50	<1	<1	0
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	0	<1	<1
Lead	ppm	ASTM D5185m >10	0	0	<1
Copper	ppm	ASTM D5185m >50	<1	<1	<1
Tin	ppm	ASTM D5185m >10	0	<1	<1
Antimony	ppm	ASTM D5185m	---	---	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	13
Barium	ppm	ASTM D5185m 90	20	22	6
Molybdenum	ppm	ASTM D5185m 0	0	0	0
Manganese	ppm	ASTM D5185m	<1	0	<1
Magnesium	ppm	ASTM D5185m 100	88	86	63
Calcium	ppm	ASTM D5185m 0	2	4	<1
Phosphorus	ppm	ASTM D5185m 0	2	11	10
Zinc	ppm	ASTM D5185m 0	2	4	3
Sulfur	ppm	ASTM D5185m 23500	20953	24833	18455

## CONTAMINANTS

method	limit/base	current	history1	history2	
Silicon	ppm	ASTM D5185m >25	<1	<1	<1
Sodium	ppm	ASTM D5185m	18	16	25
Potassium	ppm	ASTM D5185m >20	2	3	3
Water	%	ASTM D6304 >0.05	0.028	0.034	0.037
ppm Water	ppm	ASTM D6304 >500	285.4	342.4	372.4

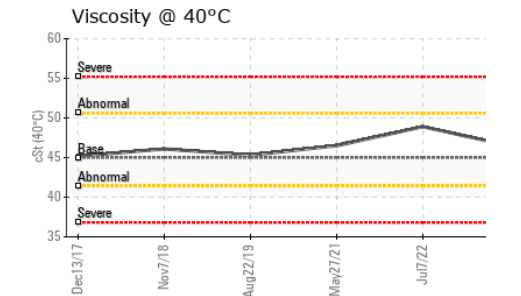
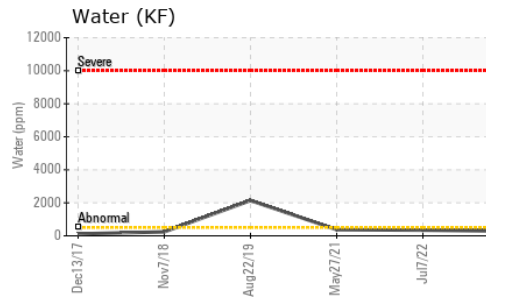
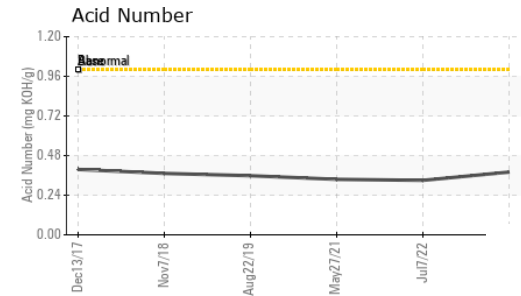
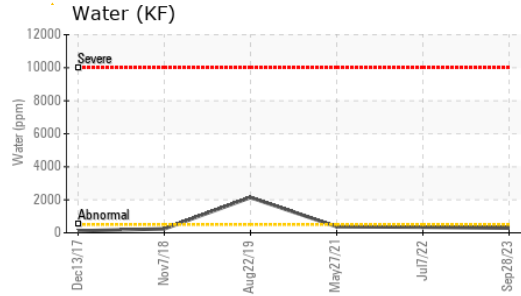
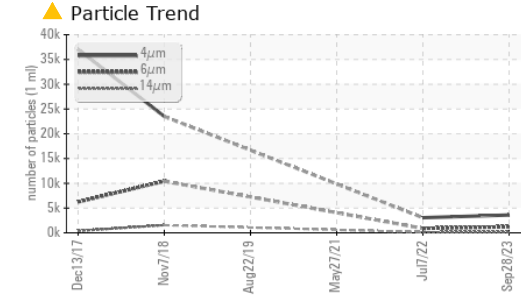
## FLUID CLEANLINESS

method	limit/base	current	history1	history2
Particles >4µm	ASTM D7647	3600	3051	---
Particles >6µm	ASTM D7647 >1300	1227	889	---
Particles >14µm	ASTM D7647 >80	▲ 124	▲ 116	---
Particles >21µm	ASTM D7647 >20	▲ 35	▲ 30	---
Particles >38µm	ASTM D7647 >4	2	3	---
Particles >71µm	ASTM D7647 >3	0	0	---
Oil Cleanliness	ISO 4406 (c) >17/13	▲ 17/14	▲ 17/14	---

## FLUID DEGRADATION

method	limit/base	current	history1	history2	
Acid Number (AN)	mg KOH/g	ASTM D8045 1.0	0.38	0.33	0.336

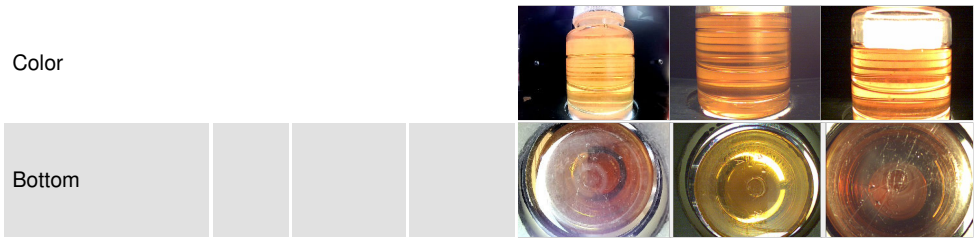
# OIL ANALYSIS REPORT



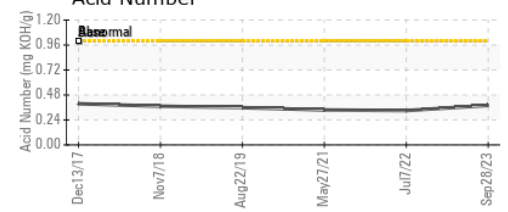
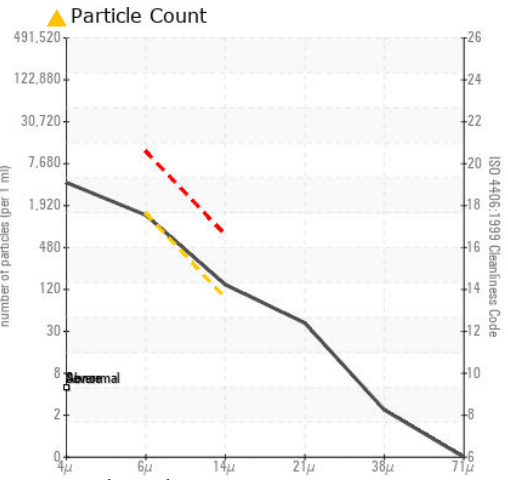
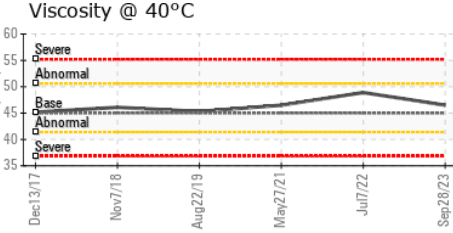
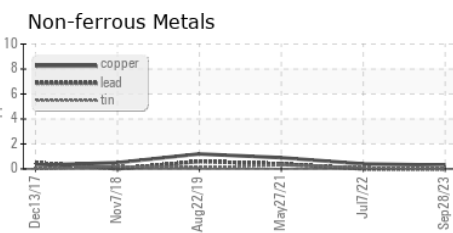
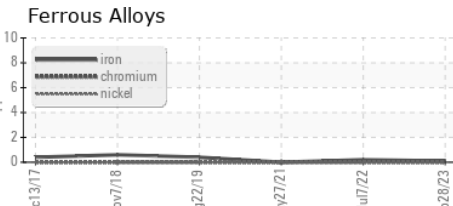
VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	▲ MODER
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE
Appearance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

FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445 45	46.5	48.9	46.5

SAMPLE IMAGES	method	limit/base	current	history1	history2
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## GRAPHS



**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : KCPA006132 **Received** : 04 Oct 2023  
**Lab Number** : 05969666 **Diagnosed** : 09 Oct 2023  
**Unique Number** : 10676217 **Diagnostician** : Angela Borella  
**Test Package** : IND 2 ( Additional Tests: KF, PrtCount )

**JRB CUSTOM WORKS**  
 230 PERRY RD  
 KERNERSVILLE, NC  
 US 27284  
 Contact: KENT HEBERT  
 khebert@paladinattachments.com  
 T: (336)996-2796  
 F:

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)