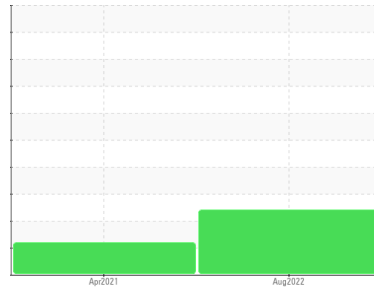


# PROBLEM SUMMARY

Sample Rating Trend



**WATER**



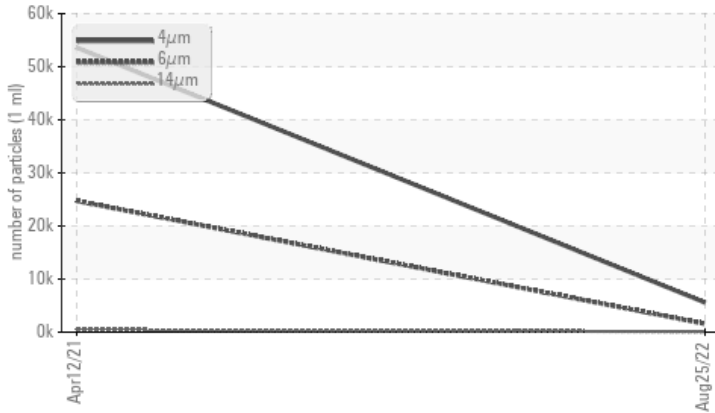
Machine Id  
**KAESER 6927941**

Component  
**Compressor**

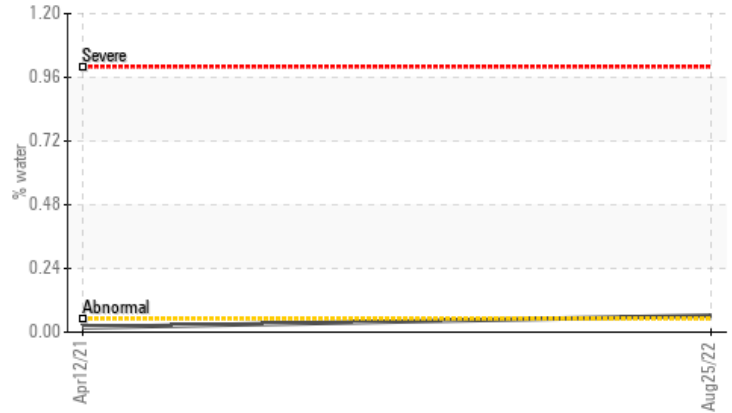
Fluid  
**KAESER SIGMA (OEM) S-460 (--- GAL)**

## COMPONENT CONDITION SUMMARY

▲ Particle Trend



▲ Water



## RECOMMENDATION

Oil and 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				ATTENTION	ABNORMAL	---
Water	%	ASTM D6304	>0.05	▲ <b>0.062</b>	0.018	---
ppm Water	ppm	ASTM D6304	>500	▲ <b>625.6</b>	183.6	---
Particles >6µm		ASTM D7647	>1300	▲ <b>1565</b>	▲ 24711	---
Oil Cleanliness		ISO 4406 (c)	>--/17/13	▲ <b>20/18/13</b>	▲ 22/16	---

Customer Id: TWORED  
Sample No.: KC90370  
Lab Number: 05636551  
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](mailto:don.b505@comcast.net)

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

## HISTORICAL DIAGNOSIS

**12 Apr 2021 Diag: Don Baldrige**

ISO

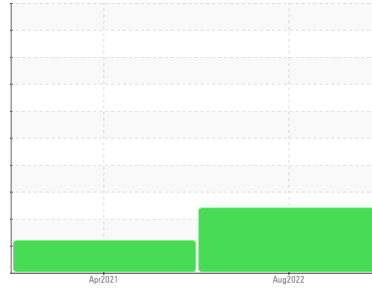


No corrective action is recommended at this time. Oil and filter change at the time of sampling has been noted. Resample at the next service interval to monitor. All component wear rates are normal. There is a high amount of particulates present in the oil. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

view report



Machine Id  
**KAESER 6927941**  
Component  
**Compressor**  
Fluid  
**KAESER SIGMA (OEM) S-460 (--- GAL)**



**DIAGNOSIS**

**▲ Recommendation**

Oil and 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 moderate amount of silt (particulates < 14 microns in size) present in the oil. There is a trace of moisture 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				<b>KC90370</b>	KC74877	---
Sample Date				<b>25 Aug 2022</b>	12 Apr 2021	---
Machine Age	hrs			<b>1946</b>	447	---
Oil Age	hrs			<b>447</b>	447	---
Oil Changed				<b>Changed</b>	Changed	---
Sample Status				<b>ATTENTION</b>	ABNORMAL	---

WEAR METALS		method	limit/base	current	history 1	history 2
Iron	ppm	ASTM D5185m	>50	<b>0</b>	<1	---
Chromium	ppm	ASTM D5185m	>10	<b>0</b>	0	---
Nickel	ppm	ASTM D5185m	>3	<b>0</b>	0	---
Titanium	ppm	ASTM D5185m	>3	<b>0</b>	0	---
Silver	ppm	ASTM D5185m	>2	<b>0</b>	0	---
Aluminum	ppm	ASTM D5185m	>10	<b>&lt;1</b>	<1	---
Lead	ppm	ASTM D5185m	>10	<b>0</b>	<1	---
Copper	ppm	ASTM D5185m	>50	<b>1</b>	1	---
Tin	ppm	ASTM D5185m	>10	<b>0</b>	<1	---
Antimony	ppm	ASTM D5185m		<b>---</b>	0	---
Vanadium	ppm	ASTM D5185m		<b>0</b>	0	---
Cadmium	ppm	ASTM D5185m		<b>0</b>	0	---

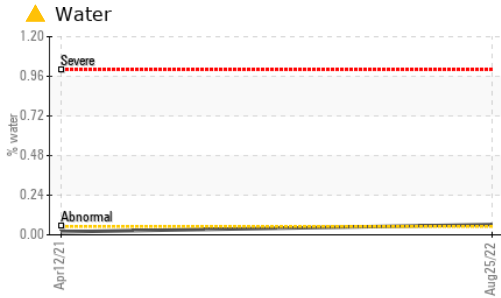
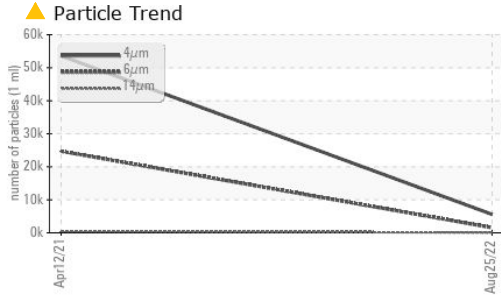
ADDITIVES		method	limit/base	current	history 1	history 2
Boron	ppm	ASTM D5185m		<b>0</b>	9	---
Barium	ppm	ASTM D5185m	90	<b>9</b>	11	---
Molybdenum	ppm	ASTM D5185m		<b>0</b>	0	---
Manganese	ppm	ASTM D5185m		<b>0</b>	<1	---
Magnesium	ppm	ASTM D5185m	90	<b>63</b>	68	---
Calcium	ppm	ASTM D5185m	2	<b>0</b>	<1	---
Phosphorus	ppm	ASTM D5185m		<b>&lt;1</b>	8	---
Zinc	ppm	ASTM D5185m		<b>2</b>	4	---

CONTAMINANTS		method	limit/base	current	history 1	history 2
Silicon	ppm	ASTM D5185m	>25	<b>0</b>	0	---
Sodium	ppm	ASTM D5185m		<b>17</b>	9	---
Potassium	ppm	ASTM D5185m	>20	<b>0</b>	<1	---
Water	%	ASTM D6304	>0.05	<b>▲ 0.062</b>	0.018	---
ppm Water	ppm	ASTM D6304	>500	<b>▲ 625.6</b>	183.6	---

FLUID CLEANLINESS		method	limit/base	current	history 1	history 2
Particles >4µm		ASTM D7647		<b>5581</b>	53616	---
Particles >6µm		ASTM D7647	>1300	<b>▲ 1565</b>	▲ 24711	---
Particles >14µm		ASTM D7647	>80	<b>66</b>	▲ 474	---
Particles >21µm		ASTM D7647	>20	<b>14</b>	▲ 35	---
Particles >38µm		ASTM D7647	>4	<b>2</b>	3	---
Particles >71µm		ASTM D7647	>3	<b>1</b>	0	---
Oil Cleanliness		ISO 4406 (c)	>--/17/13	<b>▲ 20/18/13</b>	▲ 22/16	---

FLUID DEGRADATION		method	limit/base	current	history 1	history 2
Acid Number (AN)	mg KOH/g	ASTM D8045	0.4	<b>0.35</b>	0.341	---

# OIL ANALYSIS REPORT



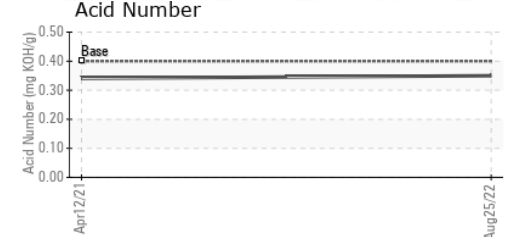
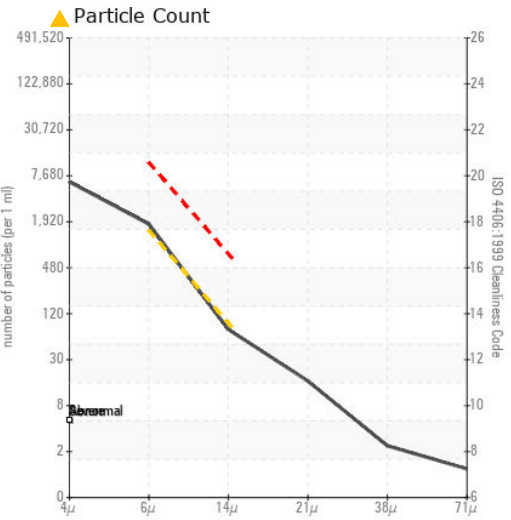
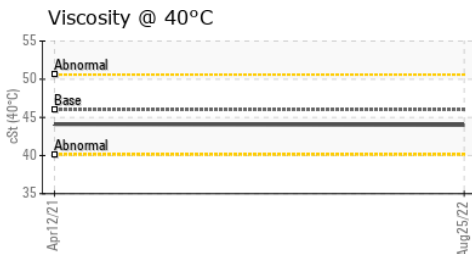
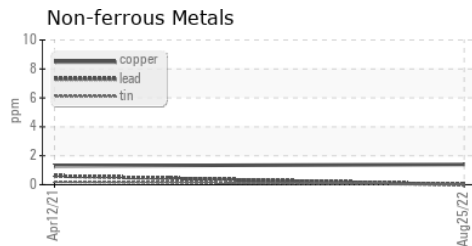
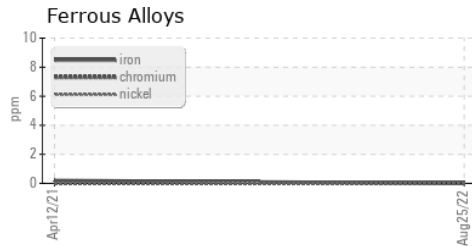
VISUAL	method	limit/base	current	history 1	history 2
White Metal	scalar	*Visual	NONE	NONE	---
Yellow Metal	scalar	*Visual	NONE	NONE	---
Precipitate	scalar	*Visual	NONE	NONE	---
Silt	scalar	*Visual	NONE	NONE	---
Debris	scalar	*Visual	NONE	LIGHT	---
Sand/Dirt	scalar	*Visual	NONE	NONE	---
Appearance	scalar	*Visual	NORML	NORML	---
Odor	scalar	*Visual	NORML	NORML	---
Emulsified Water	scalar	*Visual	>0.05	NEG	---
Free Water	scalar	*Visual		NEG	---

FLUID PROPERTIES	method	limit/base	current	history 1	history 2
Visc @ 40°C	cSt	ASTM D445	46	44.1	---

SAMPLE IMAGES	method	limit/base	current	history 1	history 2
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Color			no image
Bottom			no image

## GRAPHS



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : KC90370 **Received** : 08 Sep 2022  
**Lab Number** : 05636551 **Diagnosed** : 09 Sep 2022  
**Unique Number** : 10126081 **Diagnostician** : Don Baldrige  
**Test Package** : IND 2

**TWO RIVER THEATRE**  
 21 BRIDGE AVE  
 RED BANK, NJ  
 USA 07701  
 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:  
F: