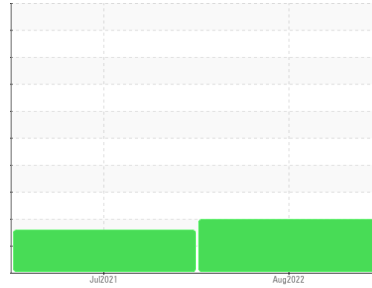


# PROBLEM SUMMARY

## Sample Rating Trend



ISO

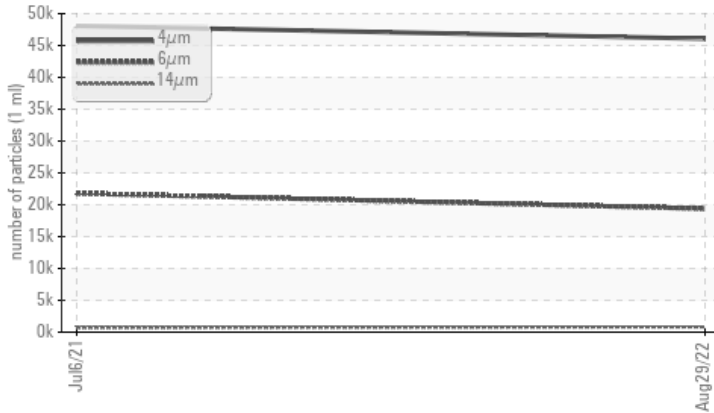


Machine Id  
**KAESER 7504789**

Component  
**Compressor**  
Fluid  
**KAESER SIGMA (OEM) S-460 (--- QTS)**

## COMPONENT CONDITION SUMMARY

### ▲ Particle Trend



## 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	---
Particles >6µm	ASTM D7647	>1300	▲ <b>19380</b>	▲ 21783	---
Particles >14µm	ASTM D7647	>80	▲ <b>816</b>	▲ 721	---
Particles >21µm	ASTM D7647	>20	▲ <b>263</b>	▲ 114	---
Particles >38µm	ASTM D7647	>4	▲ <b>14</b>	▲ 9	---
Oil Cleanliness	ISO 4406 (c)	>--/17/13	▲ <b>23/21/17</b>	▲ 22/17	---

Customer Id: BERCLE  
Sample No.: KC05637688  
Lab Number: 05637688  
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](mailto:jhester@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

**06 Jul 2021 Diag: Doug Bogart**

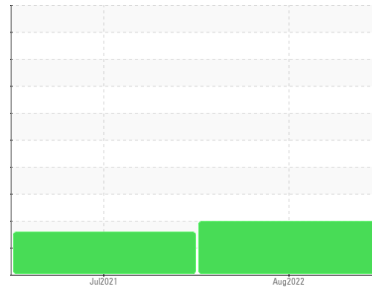
ISO



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 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 7504789**  
Component  
**Compressor**  
Fluid  
**KAESER SIGMA (OEM) S-460 (--- QTS)**

## 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			<b>KC05637688</b>	KC05301265	---
Sample Date			<b>29 Aug 2022</b>	06 Jul 2021	---
Machine Age	hrs		<b>0</b>	2712	---
Oil Age	hrs		<b>0</b>	2712	---
Oil Changed			<b>N/A</b>	Changed	---
Sample Status			<b>ABNORMAL</b>	ABNORMAL	---

## WEAR METALS

	method	limit/base	current	history 1	history 2
Iron	ppm	ASTM D5185m >50	<b>&lt;1</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>	<1	---
Aluminum	ppm	ASTM D5185m >10	<b>0</b>	<1	---
Lead	ppm	ASTM D5185m >10	<b>0</b>	0	---
Copper	ppm	ASTM D5185m >50	<b>4</b>	4	---
Tin	ppm	ASTM D5185m >10	<b>&lt;1</b>	0	---
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>	13	---
Barium	ppm	ASTM D5185m 90	<b>6</b>	4	---
Molybdenum	ppm	ASTM D5185m	<b>0</b>	0	---
Manganese	ppm	ASTM D5185m	<b>&lt;1</b>	<1	---
Magnesium	ppm	ASTM D5185m 90	<b>66</b>	54	---
Calcium	ppm	ASTM D5185m 2	<b>&lt;1</b>	<1	---
Phosphorus	ppm	ASTM D5185m	<b>0</b>	1	---
Zinc	ppm	ASTM D5185m	<b>5</b>	3	---

## CONTAMINANTS

	method	limit/base	current	history 1	history 2
Silicon	ppm	ASTM D5185m >25	<b>0</b>	<1	---
Sodium	ppm	ASTM D5185m	<b>12</b>	11	---
Potassium	ppm	ASTM D5185m >20	<b>2</b>	10	---
Water	%	ASTM D6304 >0.05	<b>0.014</b>	0.023	---
ppm Water	ppm	ASTM D6304 >500	<b>145.1</b>	232.6	---

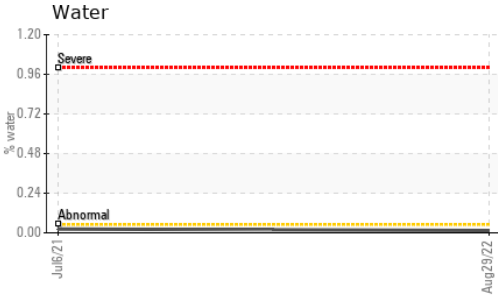
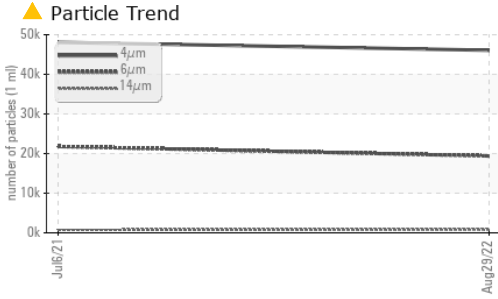
## FLUID CLEANLINESS

	method	limit/base	current	history 1	history 2
Particles >4µm	ASTM D7647		<b>46067</b>	48084	---
Particles >6µm	ASTM D7647	>1300	▲ <b>19380</b>	▲ 21783	---
Particles >14µm	ASTM D7647	>80	▲ <b>816</b>	▲ 721	---
Particles >21µm	ASTM D7647	>20	▲ <b>263</b>	▲ 114	---
Particles >38µm	ASTM D7647	>4	▲ <b>14</b>	▲ 9	---
Particles >71µm	ASTM D7647	>3	▲ <b>1</b>	0	---
Oil Cleanliness	ISO 4406 (c)	>--/17/13	▲ <b>23/21/17</b>	▲ 22/17	---

## FLUID DEGRADATION

	method	limit/base	current	history 1	history 2
Acid Number (AN)	mg KOH/g	ASTM D8045 0.4	<b>0.37</b>	0.323	---

# 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	NONE	---
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	44.3	44.7

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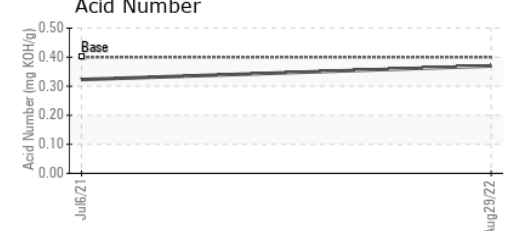
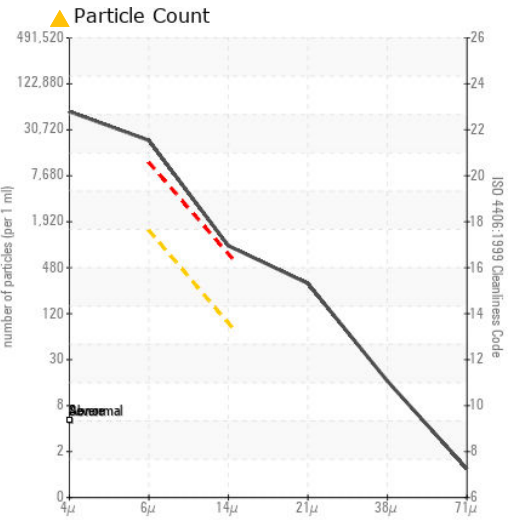
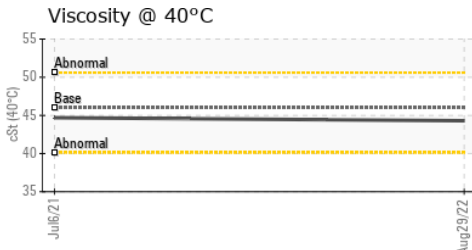
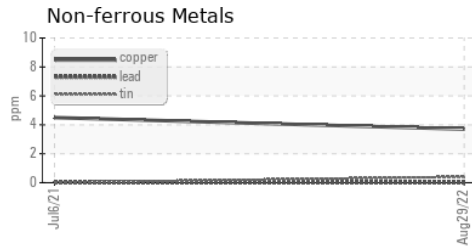
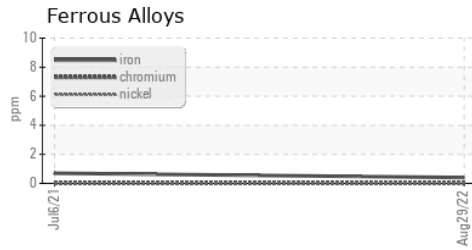
Color

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Bottom

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## GRAPHS



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
 Sample No. : KC05637688  
 Lab Number : 05637688  
 Unique Number : 10127218  
 Test Package : IND 2

**BERRY PLUMBING**  
 6736 CLEVELAND HWY  
 CLERMONT, GA  
 USA 30527  
 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: