

# PROBLEM SUMMARY

Sample Rating Trend



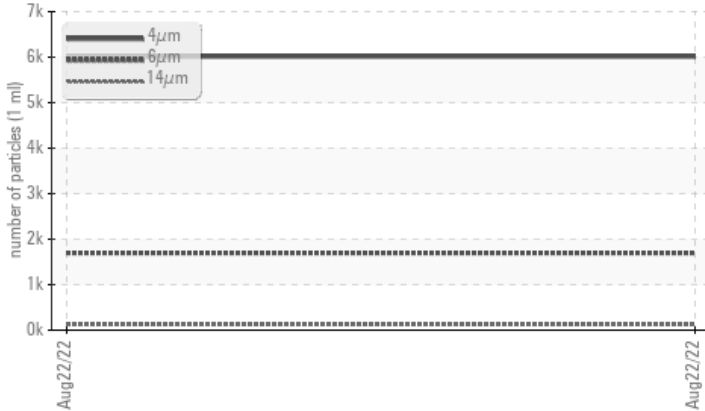
ISO



Machine Id  
**KAESER CSD 100 7859279 (S/N 1143)**  
Component  
**Compressor**  
Fluid  
**KAESER SIGMA (OEM) S-460 (--- LTR)**

## 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				<b>ATTENTION</b>	---	---
Particles >6µm	ASTM D7647	>1300	▲ <b>1696</b>	---	---	---
Particles >14µm	ASTM D7647	>80	▲ <b>122</b>	---	---	---
Oil Cleanliness	ISO 4406 (c)	>--/17/13	▲ <b>20/18/14</b>	---	---	---

**Customer Id:** PACALL  
**Sample No.:** KC104874  
**Lab Number:** 05636509  
**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

*There are no recommended actions for this sample.*

## HISTORICAL DIAGNOSIS



Machine Id  
**KAESER CSD 100 7859279 (S/N 1143)**

Component  
**Compressor**

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



## 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	history 1	history 2
Sample Number			<b>KC104874</b>	---	---
Sample Date			<b>22 Aug 2022</b>	---	---
Machine Age	hrs		<b>9134</b>	---	---
Oil Age	hrs		<b>6488</b>	---	---
Oil Changed			<b>Not Changed</b>	---	---
Sample Status			<b>ATTENTION</b>	---	---

## WEAR METALS

	method	limit/base	current	history 1	history 2
Iron	ppm ASTM D5185m	>50	<b>0</b>	---	---
Chromium	ppm ASTM D5185m	>10	<b>0</b>	---	---
Nickel	ppm ASTM D5185m	>3	<b>0</b>	---	---
Titanium	ppm ASTM D5185m	>3	<b>0</b>	---	---
Silver	ppm ASTM D5185m	>2	<b>0</b>	---	---
Aluminum	ppm ASTM D5185m	>10	<b>&lt;1</b>	---	---
Lead	ppm ASTM D5185m	>10	<b>0</b>	---	---
Copper	ppm ASTM D5185m	>50	<b>9</b>	---	---
Tin	ppm ASTM D5185m	>10	<b>0</b>	---	---
Vanadium	ppm ASTM D5185m		<b>0</b>	---	---
Cadmium	ppm ASTM D5185m		<b>0</b>	---	---

## ADDITIVES

	method	limit/base	current	history 1	history 2
Boron	ppm ASTM D5185m		<b>0</b>	---	---
Barium	ppm ASTM D5185m	90	<b>0</b>	---	---
Molybdenum	ppm ASTM D5185m		<b>0</b>	---	---
Manganese	ppm ASTM D5185m		<b>0</b>	---	---
Magnesium	ppm ASTM D5185m	90	<b>13</b>	---	---
Calcium	ppm ASTM D5185m	2	<b>0</b>	---	---
Phosphorus	ppm ASTM D5185m		<b>&lt;1</b>	---	---
Zinc	ppm ASTM D5185m		<b>5</b>	---	---

## CONTAMINANTS

	method	limit/base	current	history 1	history 2
Silicon	ppm ASTM D5185m	>25	<b>&lt;1</b>	---	---
Sodium	ppm ASTM D5185m		<b>3</b>	---	---
Potassium	ppm ASTM D5185m	>20	<b>2</b>	---	---
Water	% ASTM D6304	>0.05	<b>0.011</b>	---	---
ppm Water	ppm ASTM D6304	>500	<b>110.0</b>	---	---

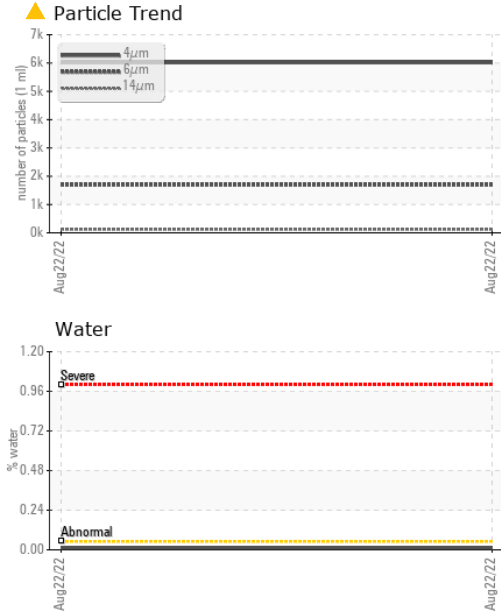
## FLUID CLEANLINESS

	method	limit/base	current	history 1	history 2
Particles >4µm	ASTM D7647		<b>6015</b>	---	---
Particles >6µm	ASTM D7647	>1300	▲ <b>1696</b>	---	---
Particles >14µm	ASTM D7647	>80	▲ <b>122</b>	---	---
Particles >21µm	ASTM D7647	>20	<b>18</b>	---	---
Particles >38µm	ASTM D7647	>4	<b>3</b>	---	---
Particles >71µm	ASTM D7647	>3	<b>0</b>	---	---
Oil Cleanliness	ISO 4406 (c)	>--/17/13	▲ <b>20/18/14</b>	---	---

## FLUID DEGRADATION

	method	limit/base	current	history 1	history 2
Acid Number (AN)	mg KOH/g ASTM D8045	0.4	<b>0.38</b>	---	---

# OIL ANALYSIS REPORT



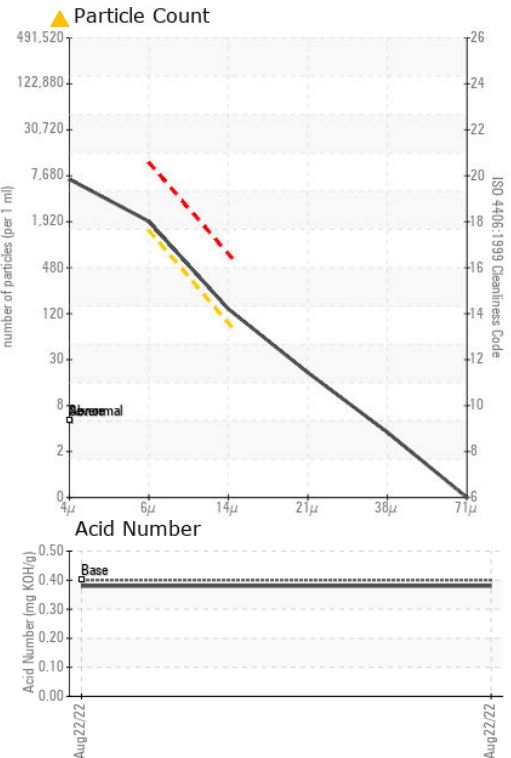
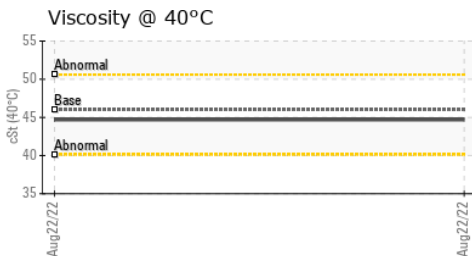
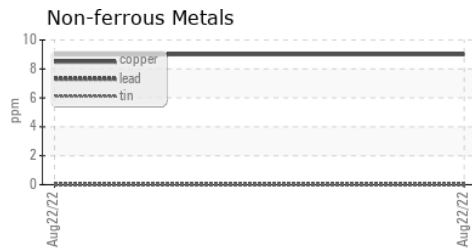
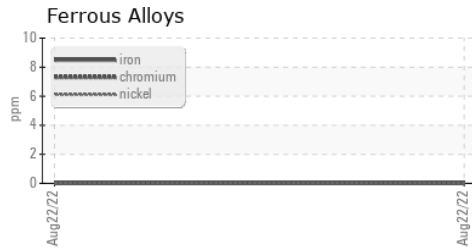
VISUAL	method	limit/base	current	history 1	history 2
White Metal	scalar	*Visual	NONE	NONE	---
Yellow Metal	scalar	*Visual	NONE	NONE	---
Precipitate	scalar	*Visual	NONE	NONE	---
Silt	scalar	*Visual	NONE	NONE	---
Debris	scalar	*Visual	NONE	LIGHT	---
Sand/Dirt	scalar	*Visual	NONE	NONE	---
Appearance	scalar	*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	44.7	---

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

Color				no image	no image
Bottom				no image	no image

## GRAPHS



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : KC104874 **Received** : 08 Sep 2022  
**Lab Number** : 05636509 **Diagnosed** : 09 Sep 2022  
**Unique Number** : 10126039 **Diagnostician** : Don Baldrige  
**Test Package** : IND 2

**PACKAGING CORP. OF AMERICA**  
 7451 CETRONIA RD.  
 ALLENTOWN, PA  
 USA 18106  
 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: