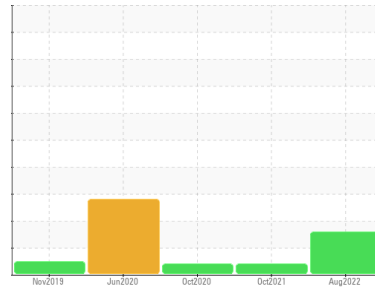
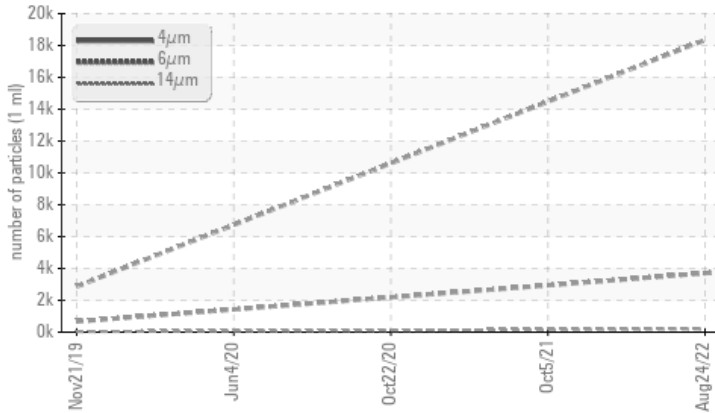


Machine Id  
**KAESER CSD 100S 6376529 (S/N 1216)**  
Component  
**Compressor**  
Fluid  
**KAESER SIGMA (OEM) S-460 (--- GAL)**



## COMPONENT CONDITION SUMMARY

### ▲ Particle Trend



## RECOMMENDATION

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

## PROBLEMATIC TEST RESULTS

Sample Status			<b>ABNORMAL</b>	ABNORMAL	ABNORMAL
Particles >6µm	ASTM D7647	>1300	▲ <b>3703</b>	---	---
Particles >14µm	ASTM D7647	>80	▲ <b>202</b>	---	---
Particles >21µm	ASTM D7647	>20	▲ <b>50</b>	---	---
Oil Cleanliness	ISO 4406 (c)	>--/17/13	▲ <b>21/19/15</b>	---	---

Customer Id: GESCHATN  
Sample No.: KC104603  
Lab Number: 05629650  
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

### 05 Oct 2021 Diag: Doug Bogart

#### VIS DEBRIS



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. 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 Oct 2020 Diag: Jonathan Hester

#### 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](#)



### 04 Jun 2020 Diag: Don Baldrige

#### WATER



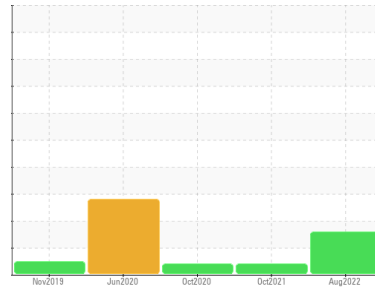
No corrective action is recommended at this time. Oil and filter change at the time of sampling has been noted. We recommend an early resample in 500 hours to monitor this condition. We were unable to perform a particle count due to a high concentration of particles present in this sample. All component wear rates are normal. There is a light concentration of water present in the oil. Moderate concentration of visible dirt/debris present in the oil. The AN level is acceptable for this fluid.

[view report](#)



Machine Id  
**KAESER CSD 100S 6376529 (S/N 1216)**

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



## DIAGNOSIS

### ▲ Recommendation

Oil and filter change at the time of sampling has been noted. No corrective action is recommended at this time. 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>KC104603</b>	KC97739	KC83074
Sample Date			<b>24 Aug 2022</b>	05 Oct 2021	22 Oct 2020
Machine Age	hrs		<b>26868</b>	19590	13102
Oil Age	hrs		<b>7280</b>	6488	2787
Oil Changed			<b>Changed</b>	Changed	Changed
Sample Status			<b>ABNORMAL</b>	ABNORMAL	ABNORMAL

## WEAR METALS

	method	limit/base	current	history 1	history 2
Iron	ppm ASTM D5185m	>50	<b>0</b>	2	5
Chromium	ppm ASTM D5185m	>10	<b>0</b>	0	0
Nickel	ppm ASTM D5185m	>3	<b>0</b>	0	0
Titanium	ppm ASTM D5185m	>3	<b>0</b>	0	0
Silver	ppm ASTM D5185m	>2	<b>0</b>	0	<1
Aluminum	ppm ASTM D5185m	>10	<b>0</b>	2	0
Lead	ppm ASTM D5185m	>10	<b>0</b>	<1	0
Copper	ppm ASTM D5185m	>50	<b>7</b>	8	9
Tin	ppm ASTM D5185m	>10	<b>0</b>	<1	0
Antimony	ppm ASTM D5185m		<b>---</b>	0	0
Vanadium	ppm ASTM D5185m		<b>0</b>	0	0
Cadmium	ppm ASTM D5185m		<b>0</b>	0	0

## ADDITIVES

	method	limit/base	current	history 1	history 2
Boron	ppm ASTM D5185m		<b>0</b>	<1	8
Barium	ppm ASTM D5185m	90	<b>&lt;1</b>	<1	0
Molybdenum	ppm ASTM D5185m		<b>0</b>	0	0
Manganese	ppm ASTM D5185m		<b>0</b>	0	<1
Magnesium	ppm ASTM D5185m	90	<b>0</b>	2	2
Calcium	ppm ASTM D5185m	2	<b>0</b>	0	0
Phosphorus	ppm ASTM D5185m		<b>&lt;1</b>	4	3
Zinc	ppm ASTM D5185m		<b>0</b>	0	0

## CONTAMINANTS

	method	limit/base	current	history 1	history 2
Silicon	ppm ASTM D5185m	>25	<b>0</b>	0	1
Sodium	ppm ASTM D5185m		<b>0</b>	0	4
Potassium	ppm ASTM D5185m	>20	<b>0</b>	0	<1
Water	% ASTM D6304	>0.05	<b>0.011</b>	0.007	0.004
ppm Water	ppm ASTM D6304	>500	<b>115.9</b>	79.7	40.6

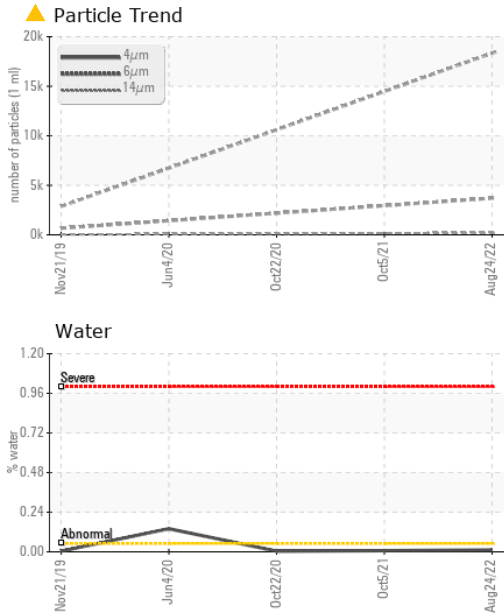
## FLUID CLEANLINESS

	method	limit/base	current	history 1	history 2
Particles >4µm	ASTM D7647		<b>18346</b>	---	---
Particles >6µm	ASTM D7647	>1300	<b>▲ 3703</b>	---	---
Particles >14µm	ASTM D7647	>80	<b>▲ 202</b>	---	---
Particles >21µm	ASTM D7647	>20	<b>▲ 50</b>	---	---
Particles >38µm	ASTM D7647	>4	<b>4</b>	---	---
Particles >71µm	ASTM D7647	>3	<b>0</b>	---	---
Oil Cleanliness	ISO 4406 (c)	>--/17/13	<b>▲ 21/19/15</b>	---	---

## FLUID DEGRADATION

	method	limit/base	current	history 1	history 2
Acid Number (AN)	mg KOH/g ASTM D8045	0.4	<b>0.49</b>	0.411	0.349

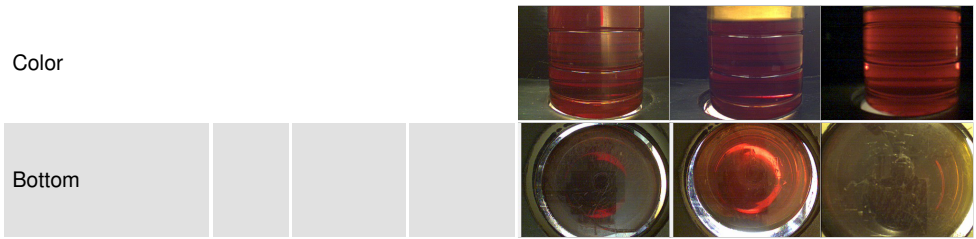
# OIL ANALYSIS REPORT



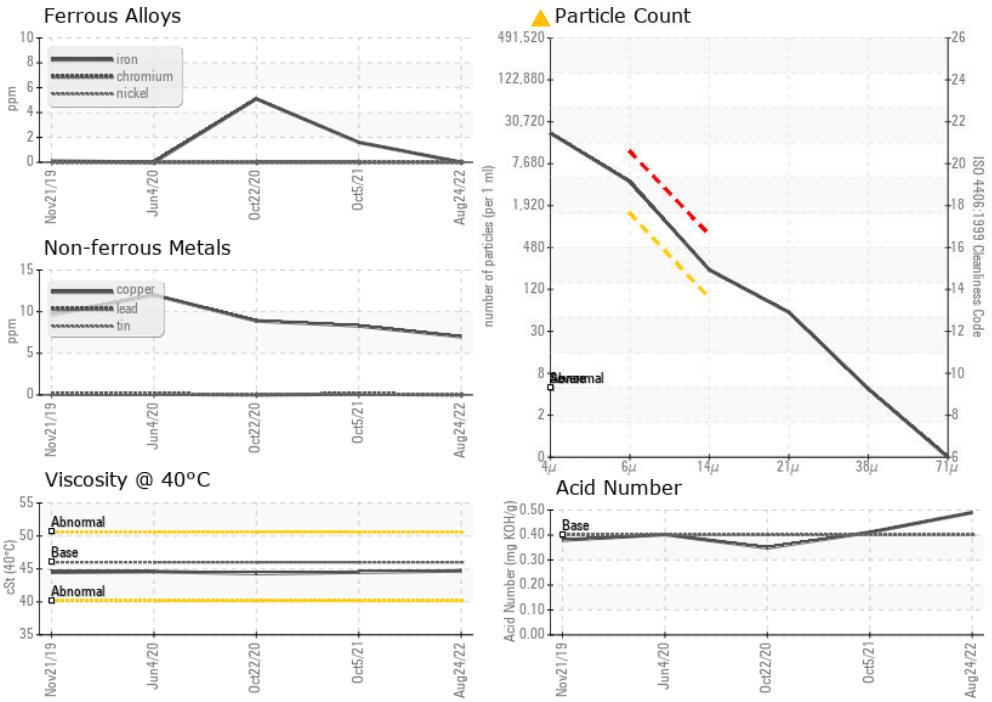
PARAMETER	method	limit/base	current	history 1	history 2
White Metal	scalar	*Visual	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	<b>LIGHT</b>	<b>▲ MODER</b>
Sand/Dirt	scalar	*Visual	NONE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

PARAMETER	method	limit/base	current	history 1	history 2
Visc @ 40°C	cSt	ASTM D445	46	<b>44.7</b>	44.5

PARAMETER	method	limit/base	current	history 1	history 2
-----------	--------	------------	---------	-----------	-----------



## GRAPHS



**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : KC104603 **Received** : 29 Aug 2022  
**Lab Number** : 05629650 **Diagnosed** : 31 Aug 2022  
**Unique Number** : 10114171 **Diagnostician** : Don Baldrige  
**Test Package** : IND 2

**GESTAMP**  
 4120 JERSEY PIKE  
 CHATTANOOGA, TN  
 USA 37421  
 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)