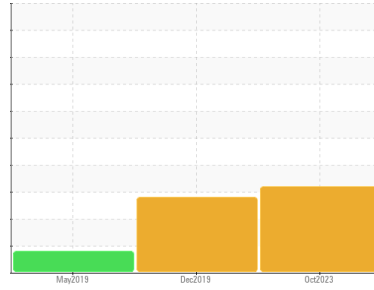




# PROBLEM SUMMARY

Sample Rating Trend

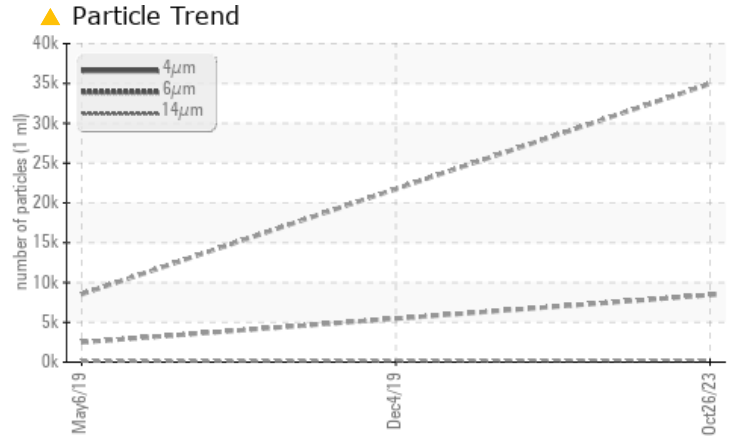
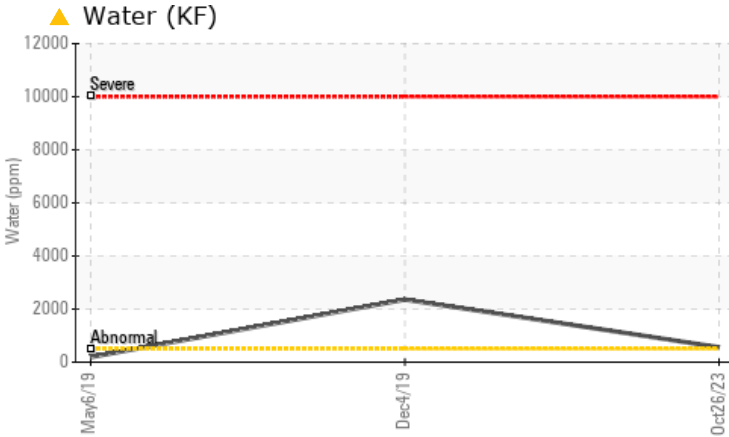


**WATER**



Machine Id  
**KAESER ASD 40 6636306 (S/N 1049)**  
 Component  
**Compressor**  
 Fluid  
**KAESER SIGMA (OEM) S-460 (--- GAL)**

## COMPONENT CONDITION SUMMARY



## RECOMMENDATION

The 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				<b>ABNORMAL</b>	ABNORMAL	ATTENTION
Water	%	ASTM D6304	>0.05	<b>▲ 0.056</b>	▲ 0.236	0.019
ppm Water	ppm	ASTM D6304	>500	<b>▲ 562.2</b>	▲ 2360	190
Particles >6µm		ASTM D7647	>1300	<b>▲ 8431</b>	---	▲ 2496
Particles >14µm		ASTM D7647	>80	<b>▲ 265</b>	---	▲ 111
Particles >21µm		ASTM D7647	>20	<b>▲ 46</b>	---	20
Oil Cleanliness		ISO 4406 (c)	>--/17/13	<b>▲ 22/20/15</b>	---	▲ 18/14

Customer Id: CANGAI  
 Sample No.: KC05994388  
 Lab Number: 05994388  
 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

### 04 Dec 2019 Diag: Jonathan Hester

#### 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. 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. The condition of the oil is suitable for further service.

view report



### 06 May 2019 Diag: Don Baldrige

#### ISO



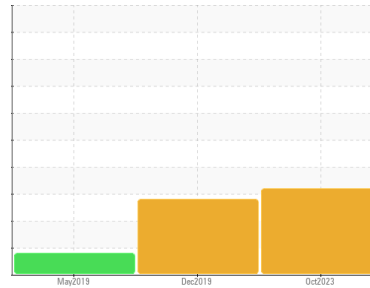
Oil and filter change at the time of sampling has been noted. Resample at the next service interval to monitor. All component wear rates are normal. There is a moderate amount of particulates present in the oil. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

view report



# OIL ANALYSIS REPORT

## Sample Rating Trend



**WATER**



Machine Id  
**KAESER ASD 40 6636306 (S/N 1049)**

Component  
**Compressor**

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

### DIAGNOSIS

#### ▲ Recommendation

The 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 high amount of particulates 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 acceptable for the time in service.

### SAMPLE INFORMATION

	method	limit/base	current	history1	history2
Sample Number	Client Info		<b>KC05994388</b>	KC76282	KC04719099
Sample Date	Client Info		<b>26 Oct 2023</b>	04 Dec 2019	06 May 2019
Machine Age	hrs	Client Info	<b>12500</b>	2130	1006
Oil Age	hrs	Client Info	<b>0</b>	1124	1006
Oil Changed	Client Info		<b>N/A</b>	Changed	Changed
Sample Status			<b>ABNORMAL</b>	ABNORMAL	ATTENTION

### WEAR METALS

	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m >50	<b>0</b>	<1	1
Chromium	ppm	ASTM D5185m >10	<b>&lt;1</b>	0	0
Nickel	ppm	ASTM D5185m >3	<b>0</b>	0	<1
Titanium	ppm	ASTM D5185m >3	<b>0</b>	0	0
Silver	ppm	ASTM D5185m >2	<b>0</b>	0	0
Aluminum	ppm	ASTM D5185m >10	<b>&lt;1</b>	<1	<1
Lead	ppm	ASTM D5185m >10	<b>0</b>	<1	<1
Copper	ppm	ASTM D5185m >50	<b>4</b>	1	1
Tin	ppm	ASTM D5185m >10	<b>&lt;1</b>	0	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	history1	history2
Boron	ppm	ASTM D5185m	<b>0</b>	0	<1
Barium	ppm	ASTM D5185m 90	<b>22</b>	5	31
Molybdenum	ppm	ASTM D5185m	<b>&lt;1</b>	0	0
Manganese	ppm	ASTM D5185m	<b>&lt;1</b>	<1	<1
Magnesium	ppm	ASTM D5185m 90	<b>24</b>	53	74
Calcium	ppm	ASTM D5185m 2	<b>0</b>	0	3
Phosphorus	ppm	ASTM D5185m	<b>74</b>	7	2
Zinc	ppm	ASTM D5185m	<b>37</b>	0	4

### CONTAMINANTS

	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m >25	<b>0</b>	<1	<1
Sodium	ppm	ASTM D5185m	<b>24</b>	10	12
Potassium	ppm	ASTM D5185m >20	<b>1</b>	6	5
Water	%	ASTM D6304 >0.05	<b>▲ 0.056</b>	▲ 0.236	0.019
ppm Water	ppm	ASTM D6304 >500	<b>▲ 562.2</b>	▲ 2360	190

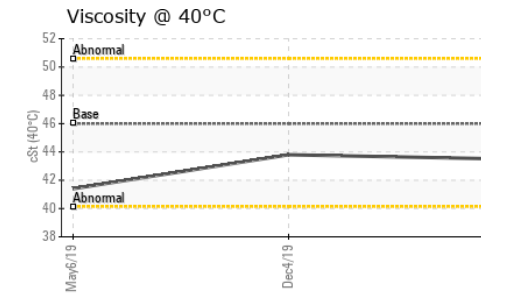
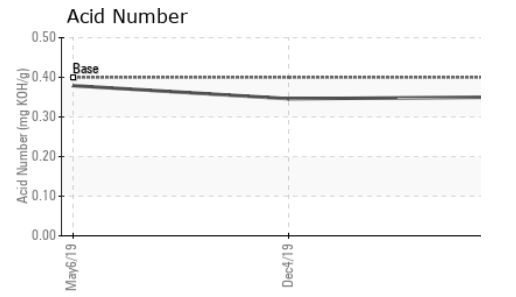
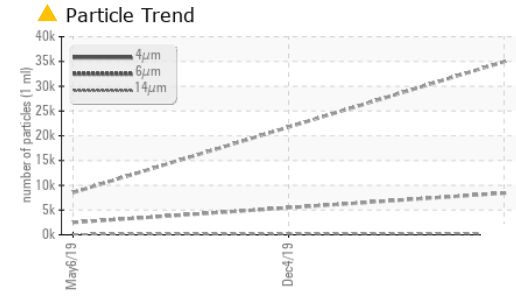
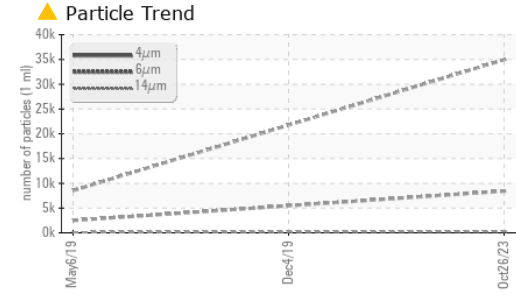
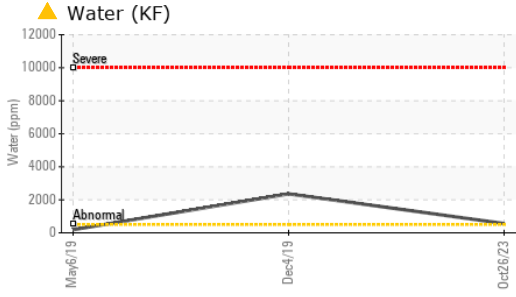
### FLUID CLEANLINESS

	method	limit/base	current	history1	history2
Particles >4µm	ASTM D7647		<b>34965</b>	---	8538
Particles >6µm	ASTM D7647 >1300		<b>▲ 8431</b>	---	▲ 2496
Particles >14µm	ASTM D7647 >80		<b>▲ 265</b>	---	▲ 111
Particles >21µm	ASTM D7647 >20		<b>▲ 46</b>	---	20
Particles >38µm	ASTM D7647 >4		<b>1</b>	---	1
Particles >71µm	ASTM D7647 >3		<b>0</b>	---	0
Oil Cleanliness	ISO 4406 (c)	>--/17/13	<b>▲ 22/20/15</b>	---	▲ 18/14

### FLUID DEGRADATION

	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045 0.4	<b>0.35</b>	0.346	0.379

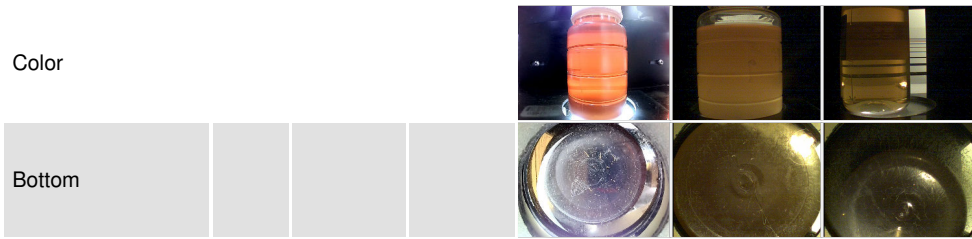
# OIL ANALYSIS REPORT



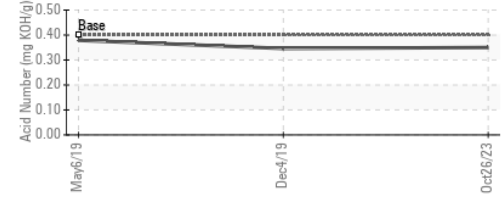
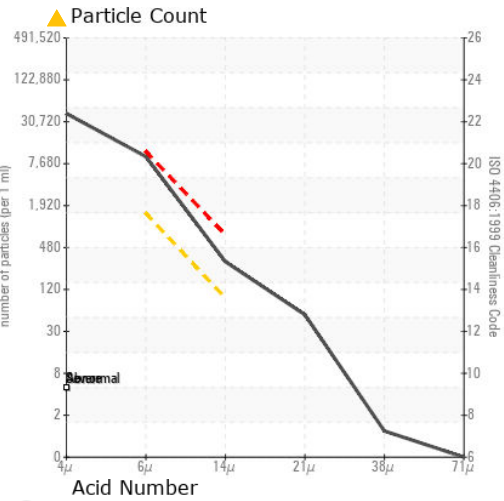
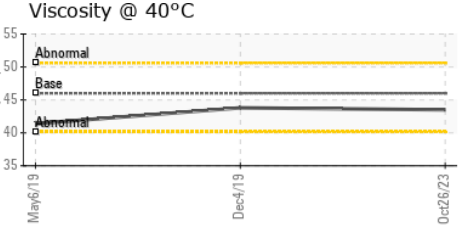
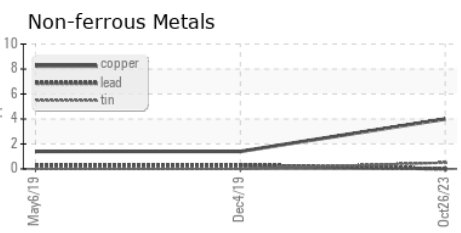
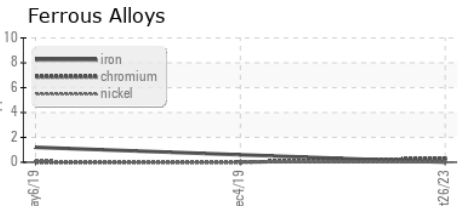
VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	VLITE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	LIGHT	▲ MODER
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	▲ HAZY
Odor	scalar	*Visual	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>0.05	NEG	0.2%
Free Water	scalar	*Visual		NEG	NEG

FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	46	43.5	43.8

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



**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : KC05994388 **Received** : 31 Oct 2023  
**Lab Number** : 05994388 **Diagnosed** : 01 Nov 2023  
**Unique Number** : 10722748 **Diagnostician** : Angela Borella  
**Test Package** : IND 2

**CANTRELL**  
 1400 BRADFORD ST EXT  
 GAINESVILLE, GA  
 US 30501  
 Contact:

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: