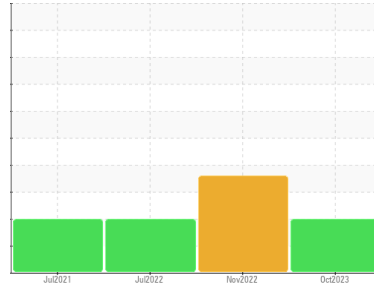


# PROBLEM SUMMARY

Sample Rating Trend



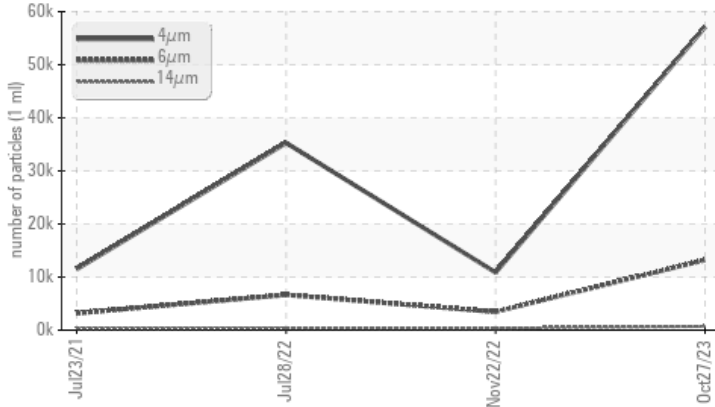
Machine Id  
**7336054 (S/N 1155)**

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	ASTM D7647	ISO 4406 (c)	ABNORMAL	ABNORMAL	ABNORMAL
Particles >6µm	>1300	▲ 13202	▲ 3448	▲ 6653	
Particles >14µm	>80	▲ 717	▲ 346	▲ 386	
Particles >21µm	>20	▲ 179	▲ 116	▲ 85	
Particles >38µm	>4	▲ 9	▲ 7	▲ 5	
Oil Cleanliness	>--/17/13	▲ 23/21/17	▲ 21/19/16	▲ 22/20/16	

Customer Id: TUCLEE  
Sample No.: KC06001064  
Lab Number: 06001064  
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

### 22 Nov 2022 Diag: Doug Bogart

#### WATER



We advise that you stop the unit and follow the water drain-off procedure for this component. We recommend an early resample in 500 hours to monitor this condition. All component wear rates are normal. There is a high amount of particulates present in the oil. There is a light concentration of water present in the oil. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

view report



### 28 Jul 2022 Diag: Jonathan Hester

#### 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 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



### 23 Jul 2021 Diag: Jonathan Hester

#### ISO



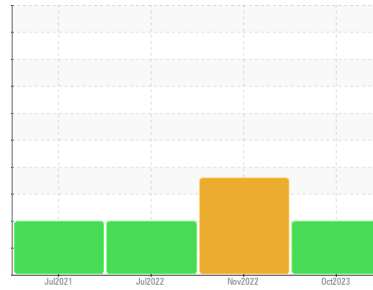
Oil and filter change at the time of sampling has been noted. Resample at the next service interval to monitor. All component wear rates are normal. There is a high amount of particulates present in the oil. Moderate concentration of visible dirt/debris present in the oil. The AN level is acceptable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

view report



# OIL ANALYSIS REPORT

Sample Rating Trend



ISO



Machine Id  
**7336054 (S/N 1155)**

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 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	history1	history2
Sample Number	Client Info	<b>KC06001064</b>	KC104171	KC97509
Sample Date	Client Info	<b>27 Oct 2023</b>	22 Nov 2022	28 Jul 2022
Machine Age	hrs	<b>3726</b>	2017	1725
Oil Age	hrs	<b>0</b>	292	0
Oil Changed	Client Info	<b>N/A</b>	Not Changd	Changed
Sample Status		<b>ABNORMAL</b>	ABNORMAL	ABNORMAL

## WEAR METALS

method	limit/base	current	history1	history2	
Iron	ppm	ASTM D5185m >50	<b>0</b>	<1	<1
Chromium	ppm	ASTM D5185m >10	<b>0</b>	0	0
Nickel	ppm	ASTM D5185m >3	<b>0</b>	<1	0
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>8</b>	2	4
Tin	ppm	ASTM D5185m >10	<b>0</b>	<1	0
Antimony	ppm	ASTM D5185m	<b>---</b>	---	---
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	0
Barium	ppm	ASTM D5185m 90	<b>0</b>	0	0
Molybdenum	ppm	ASTM D5185m	<b>0</b>	0	0
Manganese	ppm	ASTM D5185m	<b>0</b>	<1	<1
Magnesium	ppm	ASTM D5185m 90	<b>24</b>	64	46
Calcium	ppm	ASTM D5185m 2	<b>0</b>	<1	<1
Phosphorus	ppm	ASTM D5185m	<b>0</b>	8	6
Zinc	ppm	ASTM D5185m	<b>83</b>	24	42

## CONTAMINANTS

method	limit/base	current	history1	history2	
Silicon	ppm	ASTM D5185m >25	<b>0</b>	<1	<1
Sodium	ppm	ASTM D5185m	<b>14</b>	20	15
Potassium	ppm	ASTM D5185m >20	<b>7</b>	14	20
Water	%	ASTM D6304 >0.05	<b>0.040</b>	▲ 0.051	0.029
ppm Water	ppm	ASTM D6304 >500	<b>408.2</b>	▲ 518.9	292.8

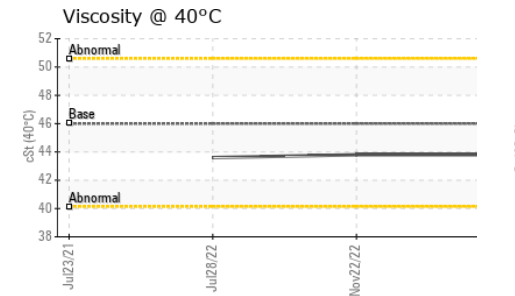
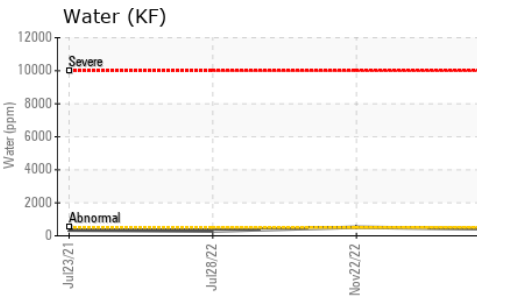
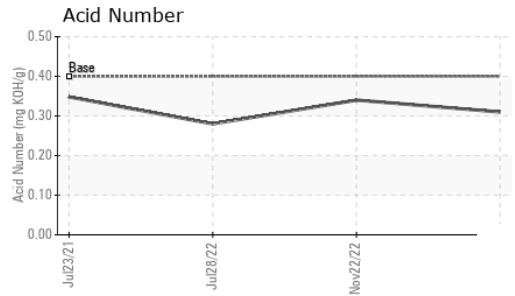
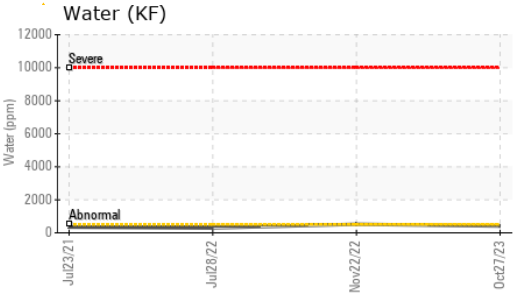
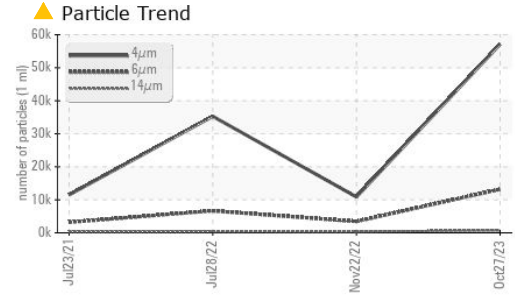
## FLUID CLEANLINESS

method	limit/base	current	history1	history2
Particles >4µm	ASTM D7647	<b>57107</b>	10872	35279
Particles >6µm	ASTM D7647 >1300	▲ <b>13202</b>	▲ 3448	▲ 6653
Particles >14µm	ASTM D7647 >80	▲ <b>717</b>	▲ 346	▲ 386
Particles >21µm	ASTM D7647 >20	▲ <b>179</b>	▲ 116	▲ 85
Particles >38µm	ASTM D7647 >4	▲ <b>9</b>	▲ 7	▲ 5
Particles >71µm	ASTM D7647 >3	<b>0</b>	1	0
Oil Cleanliness	ISO 4406 (c) >--/17/13	▲ <b>23/21/17</b>	▲ 21/19/16	▲ 22/20/16

## FLUID DEGRADATION

method	limit/base	current	history1	history2	
Acid Number (AN)	mg KOH/g	ASTM D8045 0.4	<b>0.31</b>	0.34	0.28

# OIL ANALYSIS REPORT

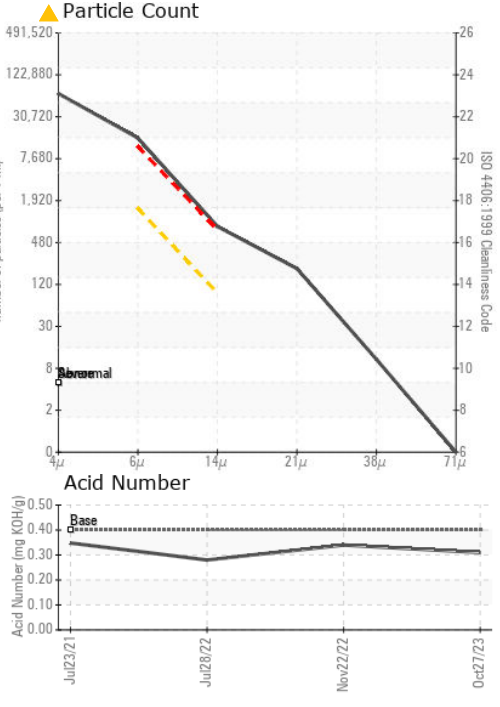
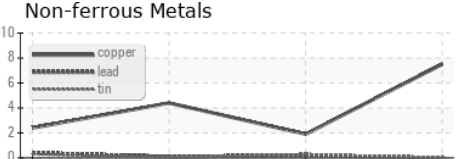
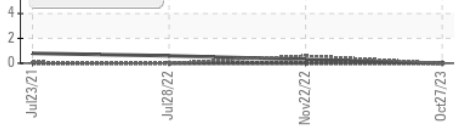


PARAMETER	method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	LIGHT	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	LIGHT	VLITE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE
Appearance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

FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	46	43.8	43.6

SAMPLE IMAGES	method	limit/base	current	history1	history2
Color					
Bottom					

## GRAPHS



**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : KC06001064  
**Lab Number** : 06001064  
**Unique Number** : 10729424  
**Test Package** : IND 2

**TUCKERS MACHINERY**  
 400 CR 468  
 LEESBURG, FL  
 US 34748  
 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: