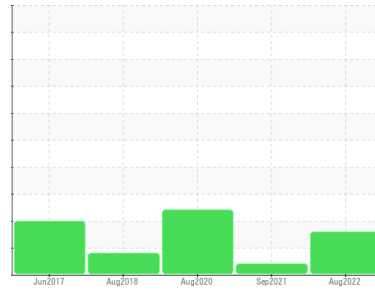


# PROBLEM SUMMARY

Sample Rating Trend



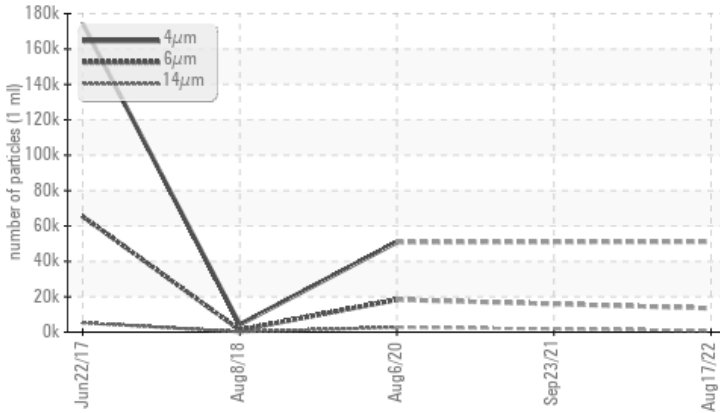
ISO



Machine Id  
**KAESER SM 11 0119432**  
Component  
**Compressor**  
Fluid  
**KAESER SIGMA (OEM) S-460 (--- QTS)**

## COMPONENT CONDITION SUMMARY

### ▲ Particle Trend



## RECOMMENDATION

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.

## PROBLEMATIC TEST RESULTS

Sample Status	ASTM D7647	ISO 4406 (c)	ABNORMAL	ABNORMAL	ABNORMAL
Particles >6µm	>1300	▲ 13493	---	▲ 18348	
Particles >14µm	>80	▲ 908	---	▲ 2736	
Particles >21µm	>20	▲ 107	---	▲ 853	
Oil Cleanliness	>--/17/13	▲ 23/21/17	---	▲ 21/19	

Customer Id: LUTALL  
Sample No.: KC104872  
Lab Number: 05636538  
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

### 23 Sep 2021 Diag: Don Baldrige

#### 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](#)



### 06 Aug 2020 Diag: Don Baldrige

#### CONTAMINANT



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. Appearance is hazy. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

[view report](#)



### 08 Aug 2018 Diag: Jonathan Hester

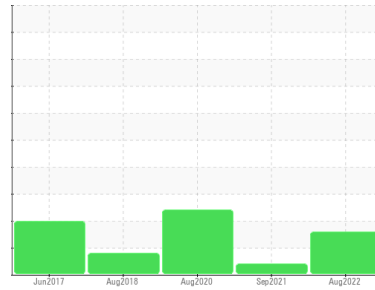
#### ISO



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 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](#)





Machine Id  
**KAESER SM 11 0119432**  
Component  
**Compressor**  
Fluid  
**KAESER SIGMA (OEM) S-460 (--- QTS)**

## DIAGNOSIS

### ▲ Recommendation

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.

### 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>KC104872</b>	KC99887	KC85396
Sample Date			<b>17 Aug 2022</b>	23 Sep 2021	06 Aug 2020
Machine Age	hrs		<b>72872</b>	68998	66925
Oil Age	hrs		<b>1874</b>	2073	1908
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	<1
Chromium	ppm ASTM D5185m	>10	<b>0</b>	0	0
Nickel	ppm ASTM D5185m	>3	<b>0</b>	0	1
Titanium	ppm ASTM D5185m	>3	<b>0</b>	<1	<1
Silver	ppm ASTM D5185m	>2	<b>0</b>	0	0
Aluminum	ppm ASTM D5185m	>10	<b>&lt;1</b>	3	<1
Lead	ppm ASTM D5185m	>10	<b>0</b>	0	0
Copper	ppm ASTM D5185m	>50	<b>1</b>	1	<1
Tin	ppm ASTM D5185m	>10	<b>0</b>	<1	0
Antimony	ppm ASTM D5185m		<b>---</b>	<1	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	<1
Barium	ppm ASTM D5185m	90	<b>74</b>	72	41
Molybdenum	ppm ASTM D5185m		<b>0</b>	0	<1
Manganese	ppm ASTM D5185m		<b>0</b>	<1	0
Magnesium	ppm ASTM D5185m	90	<b>81</b>	78	94
Calcium	ppm ASTM D5185m	2	<b>3</b>	4	2
Phosphorus	ppm ASTM D5185m		<b>1</b>	10	4
Zinc	ppm ASTM D5185m		<b>1</b>	0	7

## CONTAMINANTS

	method	limit/base	current	history 1	history 2
Silicon	ppm ASTM D5185m	>25	<b>&lt;1</b>	4	10
Sodium	ppm ASTM D5185m		<b>13</b>	10	13
Potassium	ppm ASTM D5185m	>20	<b>0</b>	2	0
Water	% ASTM D6304	>0.05	<b>0.030</b>	0.028	0.037
ppm Water	ppm ASTM D6304	>500	<b>300.9</b>	286.4	374.2

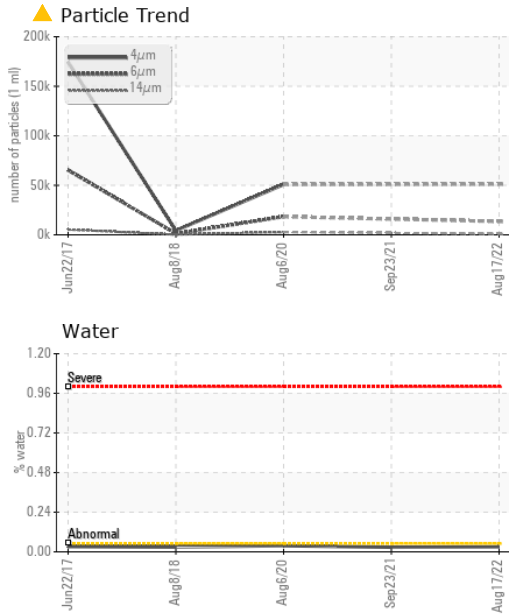
## FLUID CLEANLINESS

	method	limit/base	current	history 1	history 2
Particles >4µm	ASTM D7647		<b>51150</b>	---	50865
Particles >6µm	ASTM D7647	>1300	<b>▲ 13493</b>	---	▲ 18348
Particles >14µm	ASTM D7647	>80	<b>▲ 908</b>	---	▲ 2736
Particles >21µm	ASTM D7647	>20	<b>▲ 107</b>	---	▲ 853
Particles >38µm	ASTM D7647	>4	<b>3</b>	---	▲ 45
Particles >71µm	ASTM D7647	>3	<b>0</b>	---	3
Oil Cleanliness	ISO 4406 (c)	>--/17/13	<b>▲ 23/21/17</b>	---	▲ 21/19

## FLUID DEGRADATION

	method	limit/base	current	history 1	history 2
Acid Number (AN)	mg KOH/g ASTM D8045	0.4	<b>0.39</b>	0.359	0.392

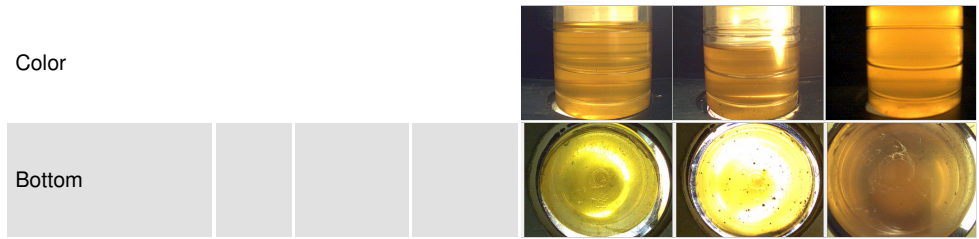
# OIL ANALYSIS REPORT



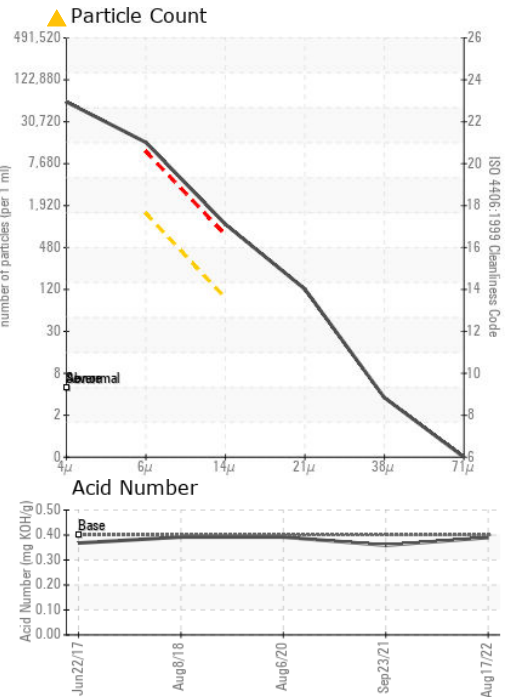
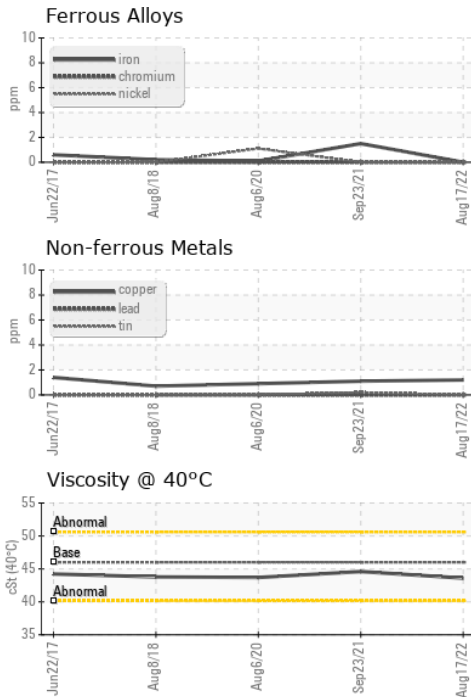
PARAMETER	method	limit/base	current	history 1	history 2
White Metal	scalar	*Visual	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	<b>LIGHT</b>	▲ MODER
Sand/Dirt	scalar	*Visual	NONE	NONE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

FLUID PROPERTIES	method	limit/base	current	history 1	history 2	
Visc @ 40°C	cSt	ASTM D445	46	<b>43.6</b>	44.6	43.7

SAMPLE IMAGES	method	limit/base	current	history 1	history 2
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## GRAPHS



**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : KC104872  
**Lab Number** : 05636538  
**Unique Number** : 10126068  
**Test Package** : IND 2

**LUTRON**  
 6560 STONEGATE DR  
 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)