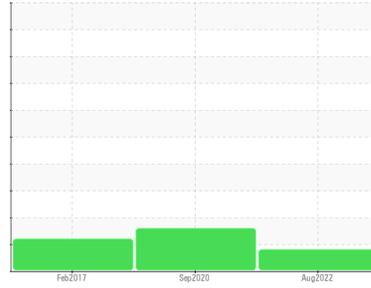


# PROBLEM SUMMARY

Sample Rating Trend



ISO



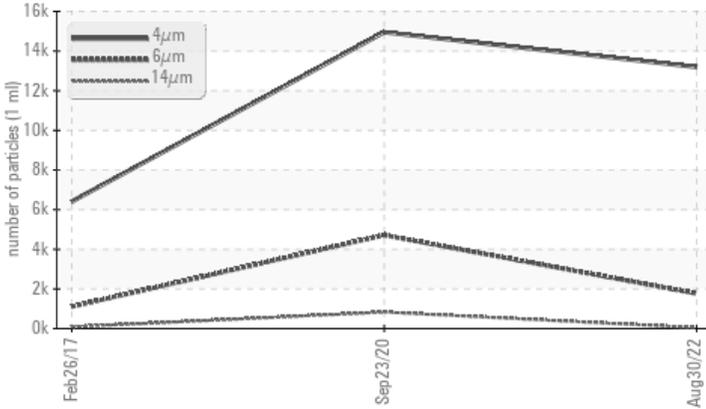
Machine Id  
**KAESER SX 6 2343830 (S/N 1797)**

Component  
**Compressor**

Fluid  
**KAESER SIGMA (OEM) M-460 (--- QTS)**

## COMPONENT CONDITION SUMMARY

▲ Particle Trend



## RECOMMENDATION

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		ATTENTION	ABNORMAL	ATTENTION
Particles >6µm	ASTM D7647 >1300	▲ 1763	▲ 4711	1104
Oil Cleanliness	ISO 4406 (c) >17/13	▲ 18/13	▲ 19/17	▲ 17/14

Customer Id: EXHTUC  
Sample No.: KCP37280  
Lab Number: 05635024  
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 2020 Diag: Angela Borella

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](#)



### 26 Feb 2017 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](#)



Machine Id  
**KAESER SX 6 2343830 (S/N 1797)**

Component  
**Compressor**

Fluid  
**KAESER SIGMA (OEM) M-460 (--- QTS)**



## DIAGNOSIS

### ▲ Recommendation

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 moderate amount of silt (particulates < 14 microns in size) 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>KCP37280</b>	KCP24976	KCP61559
Sample Date		<b>30 Aug 2022</b>	23 Sep 2020	26 Feb 2017
Machine Age	hrs	<b>90</b>	50	1476
Oil Age	hrs	<b>18</b>	100	0
Oil Changed		<b>Changed</b>	Changed	Changed
Sample Status		<b>ATTENTION</b>	ABNORMAL	ATTENTION

## WEAR METALS

method	limit/base	current	history 1	history 2
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>	0	0
Titanium	ppm ASTM D5185m >3	<b>0</b>	0	0
Silver	ppm ASTM D5185m >2	<b>0</b>	<1	0
Aluminum	ppm ASTM D5185m >10	<b>&lt;1</b>	0	<1
Lead	ppm ASTM D5185m >10	<b>&lt;1</b>	1	2
Copper	ppm ASTM D5185m >50	<b>1</b>	2	8
Tin	ppm ASTM D5185m >10	<b>0</b>	0	<1
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 0	<b>0</b>	<1	<1
Barium	ppm ASTM D5185m 90	<b>55</b>	36	0
Molybdenum	ppm ASTM D5185m 0	<b>0</b>	0	0
Manganese	ppm ASTM D5185m	<b>0</b>	<1	0
Magnesium	ppm ASTM D5185m 100	<b>77</b>	73	52
Calcium	ppm ASTM D5185m 0	<b>2</b>	2	1
Phosphorus	ppm ASTM D5185m 0	<b>&lt;1</b>	10	<1
Zinc	ppm ASTM D5185m 0	<b>5</b>	0	8
Sulfur	ppm ASTM D5185m 23500	<b>19444</b>	16807	15316

## CONTAMINANTS

method	limit/base	current	history 1	history 2
Silicon	ppm ASTM D5185m >25	<b>&lt;1</b>	<1	4
Sodium	ppm ASTM D5185m	<b>11</b>	10	16
Potassium	ppm ASTM D5185m >20	<b>0</b>	2	3
Water	% ASTM D6304 >0.05	<b>0.032</b>	0.028	0.039
ppm Water	ppm ASTM D6304 >500	<b>326.7</b>	286.0	390

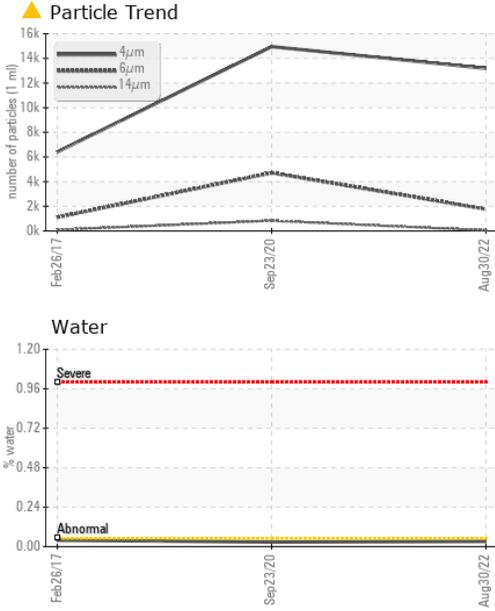
## FLUID CLEANLINESS

method	limit/base	current	history 1	history 2
Particles >4µm	ASTM D7647	<b>13194</b>	14950	6409
Particles >6µm	ASTM D7647 >1300	▲ <b>1763</b>	▲ 4711	1104
Particles >14µm	ASTM D7647 >80	<b>43</b>	▲ 829	▲ 83
Particles >21µm	ASTM D7647 >20	<b>7</b>	▲ 265	▲ 27
Particles >38µm	ASTM D7647 >4	<b>0</b>	▲ 8	▲ 5
Particles >71µm	ASTM D7647 >3	<b>0</b>	0	3
Oil Cleanliness	ISO 4406 (c) >17/13	▲ <b>18/13</b>	▲ 19/17	▲ 17/14

## FLUID DEGRADATION

method	limit/base	current	history 1	history 2
Acid Number (AN)	mg KOH/g ASTM D8045 1.0	<b>0.32</b>	0.306	0.317

# OIL ANALYSIS REPORT



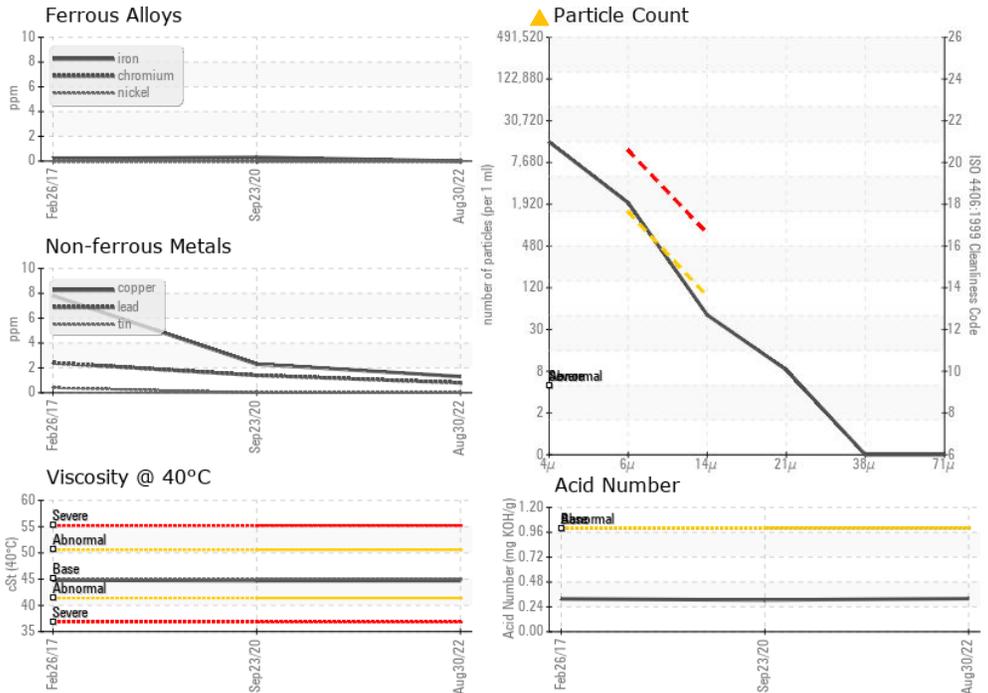
VISUAL	method	limit/base	current	history 1	history 2
White Metal	scalar	*Visual	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	VLITE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE
Appearance	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	history 1	history 2
Visc @ 40°C	cSt	ASTM D445	45	44.7	44.79

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



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : KCP37280 **Received** : 06 Sep 2022  
**Lab Number** : 05635024 **Diagnosed** : 08 Sep 2022  
**Unique Number** : 10124554 **Diagnostician** : Don Baldrige  
**Test Package** : IND 2 ( Additional Tests: KF, PrtCount )

**EXHIBITUS**  
 5361 ROYAL WOODS PKWY  
 TUCKER, GA  
 USA 30084  
 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: