



# PROBLEM SUMMARY

Sample Rating Trend



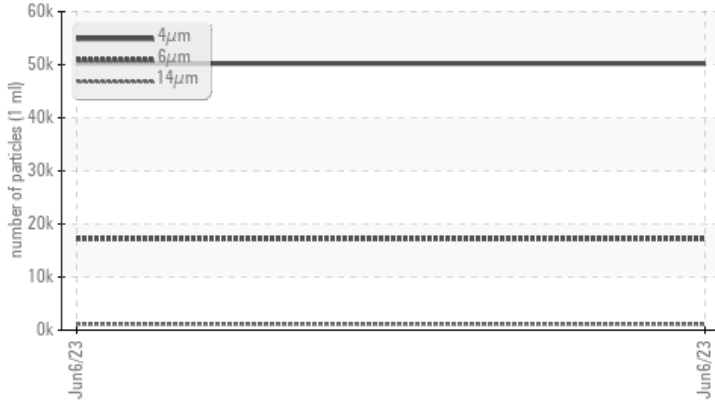
ISO



Machine Id  
**KAESER SX 7.5 100887.1 - NO CUSTOMER INFO GIVEN (S/N 1042)**  
 Component  
**Compressor**  
 Fluid  
**KAESER SIGMA (OEM) M-460 (--- GAL)**

## 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			<b>ABNORMAL</b>	---	---
Particles >6µm	ASTM D7647	>1300	▲ <b>17209</b>	---	---
Particles >14µm	ASTM D7647	>80	▲ <b>1136</b>	---	---
Particles >21µm	ASTM D7647	>20	▲ <b>265</b>	---	---
Particles >38µm	ASTM D7647	>4	▲ <b>7</b>	---	---
Oil Cleanliness	ISO 4406 (c)	>17/13	▲ <b>21/17</b>	---	---

Customer Id: KAELOU  
 Sample No.: KCPA002086  
 Lab Number: 05874506  
 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



# OIL ANALYSIS REPORT

Sample Rating Trend



ISO



Machine Id  
**KAESER SX 7.5 100887.1 - NO CUSTOMER INFO GIVEN (S/N 1042)**  
 Component  
**Compressor**  
 Fluid  
**KAESER SIGMA (OEM) M-460 (--- GAL)**

## 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>KCPA002086</b>	---	---
Sample Date	Client Info	<b>06 Jun 2023</b>	---	---
Machine Age	hrs	Client Info	<b>5437</b>	---
Oil Age	hrs	Client Info	<b>0</b>	---
Oil Changed	Client Info	<b>N/A</b>	---	---
Sample Status		<b>ABNORMAL</b>	---	---

## WEAR METALS

method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m >50	<b>&lt;1</b>	---
Chromium	ppm	ASTM D5185m >10	<b>0</b>	---
Nickel	ppm	ASTM D5185m >3	<b>0</b>	---
Titanium	ppm	ASTM D5185m >3	<b>&lt;1</b>	---
Silver	ppm	ASTM D5185m >2	<b>0</b>	---
Aluminum	ppm	ASTM D5185m >10	<b>&lt;1</b>	---
Lead	ppm	ASTM D5185m >10	<b>0</b>	---
Copper	ppm	ASTM D5185m >50	<b>1</b>	---
Tin	ppm	ASTM D5185m >10	<b>0</b>	---
Vanadium	ppm	ASTM D5185m	<b>&lt;1</b>	---
Cadmium	ppm	ASTM D5185m	<b>0</b>	---

## ADDITIVES

method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m 0	<b>0</b>	---
Barium	ppm	ASTM D5185m 90	<b>0</b>	---
Molybdenum	ppm	ASTM D5185m 0	<b>0</b>	---
Manganese	ppm	ASTM D5185m	<b>&lt;1</b>	---
Magnesium	ppm	ASTM D5185m 100	<b>41</b>	---
Calcium	ppm	ASTM D5185m 0	<b>0</b>	---
Phosphorus	ppm	ASTM D5185m 0	<b>0</b>	---
Zinc	ppm	ASTM D5185m 0	<b>29</b>	---
Sulfur	ppm	ASTM D5185m 23500	<b>23697</b>	---

## CONTAMINANTS

method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m >25	<b>&lt;1</b>	---
Sodium	ppm	ASTM D5185m	<b>11</b>	---
Potassium	ppm	ASTM D5185m >20	<b>0</b>	---
Water	%	ASTM D6304 >0.05	<b>0.014</b>	---
ppm Water	ppm	ASTM D6304 >500	<b>142.7</b>	---

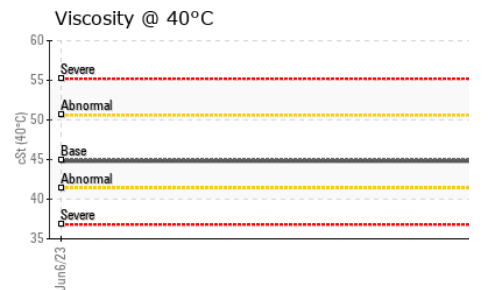
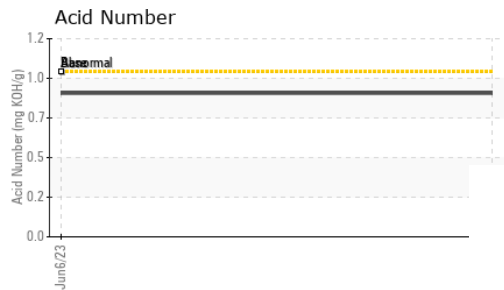
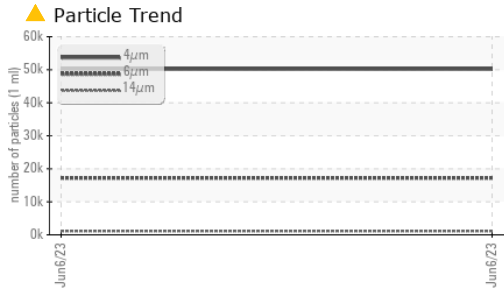
## FLUID CLEANLINESS

method	limit/base	current	history1	history2
Particles >4µm	ASTM D7647	<b>50208</b>	---	---
Particles >6µm	ASTM D7647 >1300	<b>▲ 17209</b>	---	---
Particles >14µm	ASTM D7647 >80	<b>▲ 1136</b>	---	---
Particles >21µm	ASTM D7647 >20	<b>▲ 265</b>	---	---
Particles >38µm	ASTM D7647 >4	<b>▲ 7</b>	---	---
Particles >71µm	ASTM D7647 >3	<b>0</b>	---	---
Oil Cleanliness	ISO 4406 (c) >17/13	<b>▲ 21/17</b>	---	---

## FLUID DEGRADATION

method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045 1.0	<b>0.87</b>	---

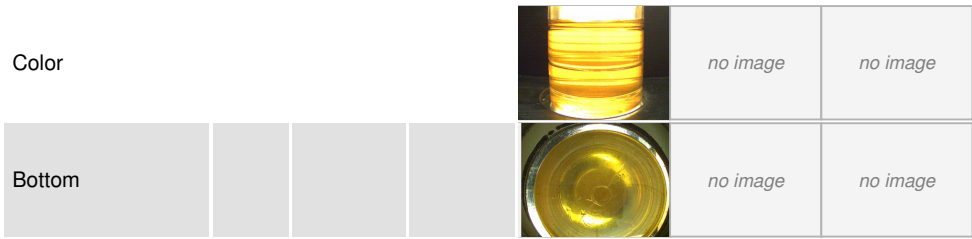
# OIL ANALYSIS REPORT



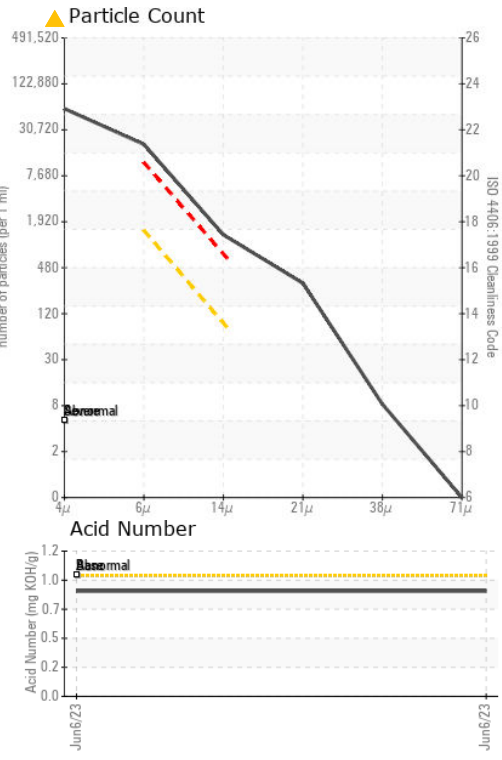
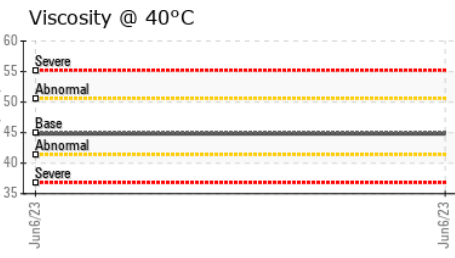
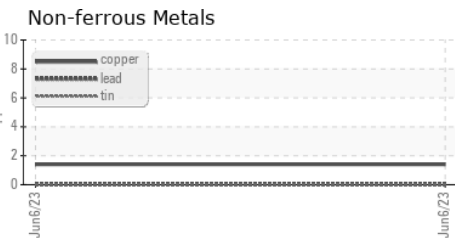
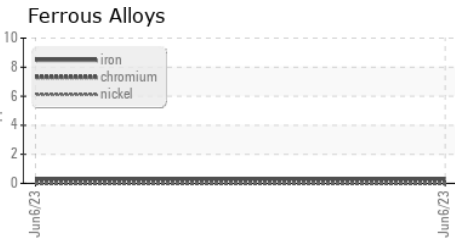
VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	---
Yellow Metal	scalar	*Visual	NONE	NONE	---
Precipitate	scalar	*Visual	NONE	NONE	---
Silt	scalar	*Visual	NONE	NONE	---
Debris	scalar	*Visual	NONE	LIGHT	---
Sand/Dirt	scalar	*Visual	NONE	NONE	---
Appearance	scalar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

FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	45	44.8	---

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



**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : KCPA002086 **Received** : 15 Jun 2023  
**Lab Number** : 05874506 **Diagnosed** : 17 Jun 2023  
**Unique Number** : 10519609 **Diagnostician** : Don Baldrige  
**Test Package** : IND 2 ( Additional Tests: KF, PrtCount )

**KAESER COMPRESSORS INC**  
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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)