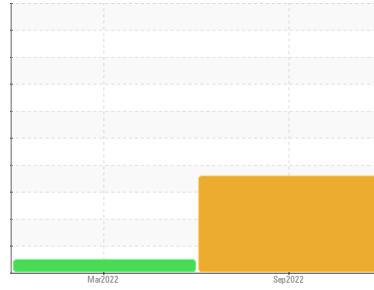


# PROBLEM SUMMARY

Sample Rating Trend

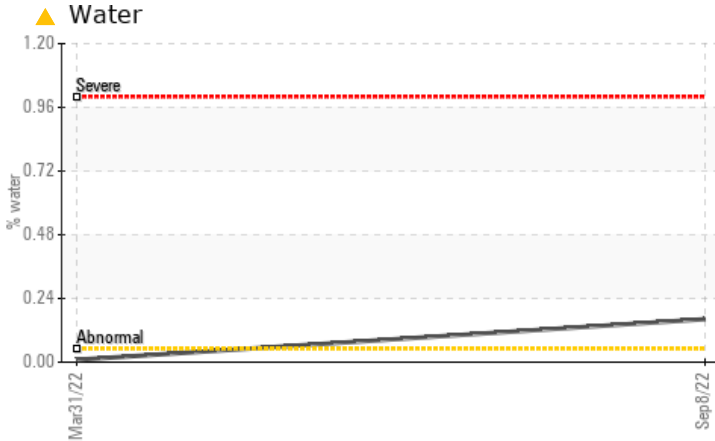


**WATER**



Machine Id  
**KAESER SX 7.5T 8185915 (S/N 11670)**  
Component  
**Compressor**  
Fluid  
**KAESER SIGMA (OEM) S-460 (--- QTS)**

## COMPONENT CONDITION SUMMARY



## RECOMMENDATION

The filter change at the time of sampling has been noted. We were unable to perform a particle count due to a high concentration of particles present in this sample. 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.

## PROBLEMATIC TEST RESULTS

Sample Status				<b>ABNORMAL</b>	NORMAL	---
Water	%	ASTM D6304	>0.05	▲ <b>0.162</b>	0.009	---
ppm Water	ppm	ASTM D6304	>500	▲ <b>1620</b>	91.7	---
Debris	scalar	*Visual	NONE	▲ <b>MODER</b>	NONE	---
Emulsified Water	scalar	*Visual	>0.05	▲ <b>0.2%</b>	NEG	---
Free Water	scalar	*Visual		▲ <b>1.0</b>	NEG	---

Customer Id: WHIMIN  
Sample No.: KC95191  
Lab Number: 05644254  
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
Alert	---	---	?	We were unable to perform a particle count due to a high concentration of particles present in this sample.

## HISTORICAL DIAGNOSIS

### 31 Mar 2022 Diag: Doug Bogart

NORMAL



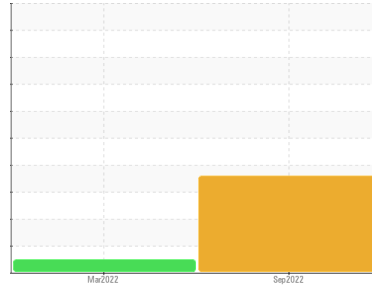
Oil and filter change at the time of sampling has been noted. No corrective action is recommended at this time. Resample at the next service interval to monitor. All component wear rates are normal. There is no indication of any contamination in the oil. The amount and size of particulates present in the system are acceptable. 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 SX 7.5T 8185915 (S/N 11670)**

Component

**Compressor**

Fluid

**KAESER SIGMA (OEM) S-460 (--- QTS)**

## DIAGNOSIS

### ▲ Recommendation

The filter change at the time of sampling has been noted. We were unable to perform a particle count due to a high concentration of particles present in this sample. 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.

### Wear

All component wear rates are normal.

### ▲ Contamination

Moderate concentration of visible dirt/debris present in the oil. There is a light concentration of water present in the oil. Free water present.

### Fluid Condition

The AN level is acceptable for this fluid.

## SAMPLE INFORMATION

	method	limit/base	current	history 1	history 2
Sample Number			<b>KC95191</b>	KC96183	---
Sample Date			<b>08 Sep 2022</b>	31 Mar 2022	---
Machine Age	hrs		<b>6952</b>	3339	---
Oil Age	hrs		<b>3316</b>	3339	---
Oil Changed			<b>Not Changed</b>	Changed	---
Sample Status			<b>ABNORMAL</b>	NORMAL	---

## WEAR METALS

	method	limit/base	current	history 1	history 2
Iron	ppm ASTM D5185m	>50	<b>0</b>	3	---
Chromium	ppm ASTM D5185m	>10	<b>0</b>	0	---
Nickel	ppm ASTM D5185m	>3	<b>0</b>	0	---
Titanium	ppm ASTM D5185m	>3	<b>0</b>	0	---
Silver	ppm ASTM D5185m	>2	<b>0</b>	0	---
Aluminum	ppm ASTM D5185m	>10	<b>0</b>	<1	---
Lead	ppm ASTM D5185m	>10	<b>0</b>	<1	---
Copper	ppm ASTM D5185m	>50	<b>19</b>	5	---
Tin	ppm ASTM D5185m	>10	<b>0</b>	<1	---
Vanadium	ppm ASTM D5185m		<b>0</b>	0	---
Cadmium	ppm ASTM D5185m		<b>0</b>	0	---

## ADDITIVES

	method	limit/base	current	history 1	history 2
Boron	ppm ASTM D5185m		<b>0</b>	0	---
Barium	ppm ASTM D5185m	90	<b>4</b>	0	---
Molybdenum	ppm ASTM D5185m		<b>0</b>	0	---
Manganese	ppm ASTM D5185m		<b>0</b>	<1	---
Magnesium	ppm ASTM D5185m	90	<b>4</b>	44	---
Calcium	ppm ASTM D5185m	2	<b>&lt;1</b>	2	---
Phosphorus	ppm ASTM D5185m		<b>3</b>	3	---
Zinc	ppm ASTM D5185m		<b>17</b>	11	---

## CONTAMINANTS

	method	limit/base	current	history 1	history 2
Silicon	ppm ASTM D5185m	>25	<b>&lt;1</b>	<1	---
Sodium	ppm ASTM D5185m		<b>0</b>	10	---
Potassium	ppm ASTM D5185m	>20	<b>0</b>	1	---
Water	% ASTM D6304	>0.05	<b>▲ 0.162</b>	0.009	---
ppm Water	ppm ASTM D6304	>500	<b>▲ 1620</b>	91.7	---

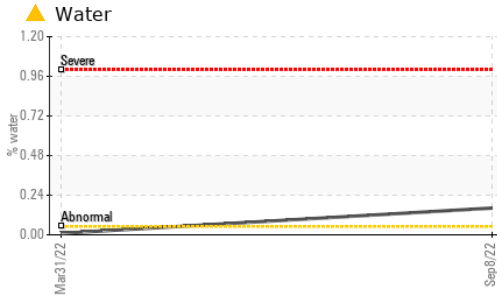
## FLUID CLEANLINESS

	method	limit/base	current	history 1	history 2
Particles >4µm	ASTM D7647		---	2318	---
Particles >6µm	ASTM D7647	>1300	---	986	---
Particles >14µm	ASTM D7647	>80	---	63	---
Particles >21µm	ASTM D7647	>20	---	7	---
Particles >38µm	ASTM D7647	>4	---	1	---
Particles >71µm	ASTM D7647	>3	---	0	---
Oil Cleanliness	ISO 4406 (c)	>--/17/13	---	17/13	---

## FLUID DEGRADATION

	method	limit/base	current	history 1	history 2
Acid Number (AN)	mg KOH/g ASTM D8045	0.4	<b>0.27</b>	0.32	---

# OIL ANALYSIS REPORT



VISUAL	method	limit/base	current	history 1	history 2
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	▲ MODER	---
Sand/Dirt	scalar	*Visual	NONE	NONE	---
Appearance	scalar	*Visual	NORML	NORML	---
Odor	scalar	*Visual	NORML	NORML	---
Emulsified Water	scalar	*Visual	>0.05	▲ 0.2%	NEG
Free Water	scalar	*Visual		▲ 1.0	NEG

FLUID PROPERTIES	method	limit/base	current	history 1	history 2
Visc @ 40°C	cSt	ASTM D445	46	44.2	44.3

SAMPLE IMAGES	method	limit/base	current	history 1	history 2
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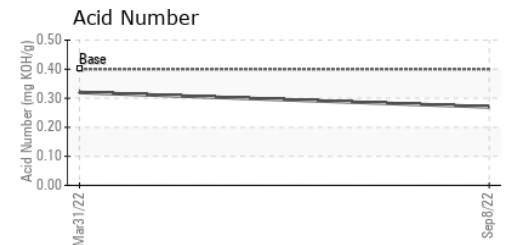
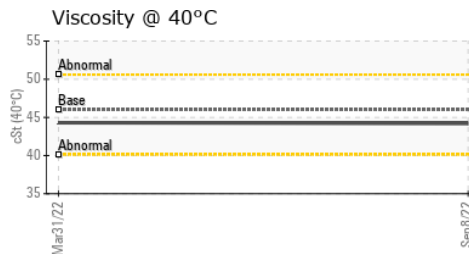
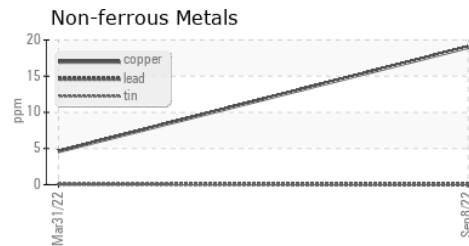
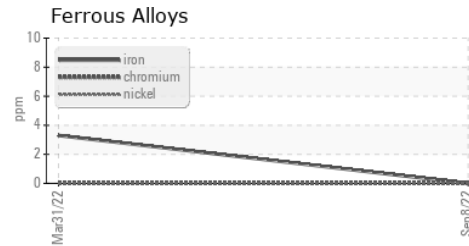
Color

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Bottom

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## GRAPHS



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : KC95191 **Received** : 16 Sep 2022  
**Lab Number** : 05644254 **Diagnosed** : 20 Sep 2022  
**Unique Number** : 10138793 **Diagnostician** : Don Baldrige  
**Test Package** : IND 2

**WHITELEATHER FARMS**  
 8208 BAYARD RD  
 MINERVA, OH  
 USA 44657  
 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: