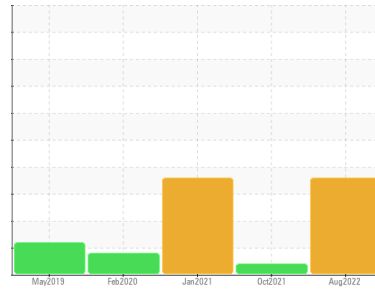


# PROBLEM SUMMARY

Sample Rating Trend



**WATER**



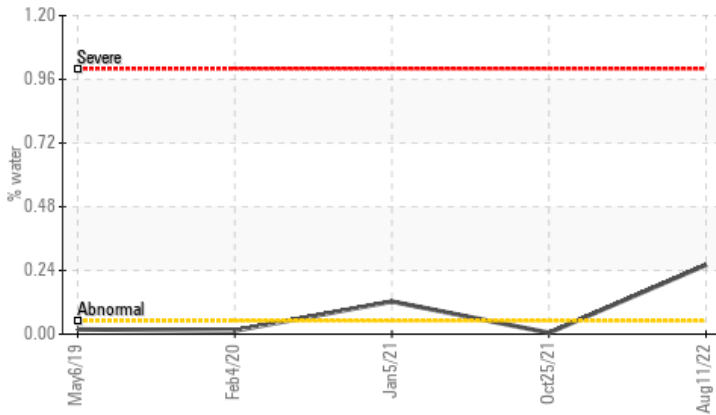
Machine Id  
**KAESER SX 5 6597250 (S/N 1128)**

Component  
**Compressor**

Fluid  
**KAESER SIGMA (OEM) S-460 (--- GAL)**

## COMPONENT CONDITION SUMMARY

▲ Water



## 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.

## PROBLEMATIC TEST RESULTS

Sample Status				<b>ABNORMAL</b>	ATTENTION	ABNORMAL
Water	%	ASTM D6304	>0.05	▲ <b>0.261</b>	0.005	▲ 0.123
ppm Water	ppm	ASTM D6304	>500	▲ <b>2610</b>	58.3	▲ 1230
Debris	scalar	*Visual	NONE	▲ <b>MODER</b>	LIGHT	▲ MODER
Free Water	scalar	*Visual		▲ <b>1.0</b>	NEG	▲ 1.0

Customer Id: RBMATL  
Sample No.: KCP50040  
Lab Number: 05641625  
Test Package: IND 2



To manage this report scan the QR code

To discuss the diagnosis or test data:  
Angela Borella +1 800-237-1369  
[angela.borella@wearcheckusa.com](mailto:angela.borella@wearcheckusa.com)

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

### 25 Oct 2021 Diag: Jonathan Hester

ISO



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 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



### 05 Jan 2021 Diag: Don Baldrige

WATER



Oil and filter change at the time of sampling has been noted. We recommend an early resample in 500 hours to monitor this condition. 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. There is a light concentration of water present in the oil. Free water present. The AN level is acceptable for this fluid. The condition of the oil is acceptable for the time in service.

view report



### 04 Feb 2020 Diag: Jonathan Hester

ISO



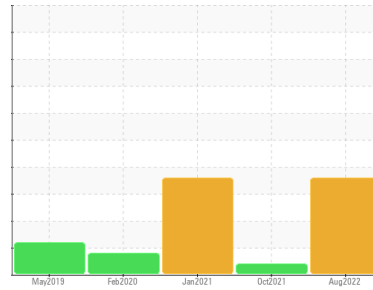
No corrective action is recommended at this time. Oil and filter change at the time of sampling has been noted. Resample at the next service interval to monitor. All component wear rates are normal. There is a moderate amount of particulates present in the oil. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

view report



Machine Id  
**KAESER SX 5 6597250 (S/N 1128)**

Component  
**Compressor**  
Fluid  
**KAESER SIGMA (OEM) S-460 (--- GAL)**



## 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.

### Wear

All component wear rates are normal.

### Contamination

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

### Fluid Condition

The condition of the oil is acceptable for the time in service.

## SAMPLE INFORMATION

	method	limit/base	current	history 1	history 2
Sample Number			<b>KCP50040</b>	KCP36160	KCP28066
Sample Date			<b>11 Aug 2022</b>	25 Oct 2021	05 Jan 2021
Machine Age	hrs		<b>14838</b>	11918	8749
Oil Age	hrs		<b>2920</b>	6000	3304
Oil Changed			<b>Not Changed</b>	Changed	Changed
Sample Status			<b>ABNORMAL</b>	ATTENTION	ABNORMAL

## WEAR METALS

	method	limit/base	current	history 1	history 2
Iron	ppm ASTM D5185m	>50	<b>0</b>	0	<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>	0	0
Silver	ppm ASTM D5185m	>2	<b>0</b>	0	0
Aluminum	ppm ASTM D5185m	>10	<b>&lt;1</b>	0	0
Lead	ppm ASTM D5185m	>10	<b>0</b>	0	<1
Copper	ppm ASTM D5185m	>50	<b>24</b>	26	23
Tin	ppm ASTM D5185m	>10	<b>&lt;1</b>	0	0
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		<b>0</b>	0	11
Barium	ppm ASTM D5185m	90	<b>&lt;1</b>	0	0
Molybdenum	ppm ASTM D5185m		<b>0</b>	0	0
Manganese	ppm ASTM D5185m		<b>0</b>	0	0
Magnesium	ppm ASTM D5185m	90	<b>5</b>	0	9
Calcium	ppm ASTM D5185m	2	<b>&lt;1</b>	0	0
Phosphorus	ppm ASTM D5185m		<b>3</b>	1	9
Zinc	ppm ASTM D5185m		<b>51</b>	69	70
Sulfur	ppm ASTM D5185m		<b>16497</b>	14690	16904

## CONTAMINANTS

	method	limit/base	current	history 1	history 2
Silicon	ppm ASTM D5185m	>25	<b>1</b>	<1	2
Sodium	ppm ASTM D5185m		<b>2</b>	0	4
Potassium	ppm ASTM D5185m	>20	<b>0</b>	0	<1
Water	% ASTM D6304	>0.05	<b>▲ 0.261</b>	0.005	<b>▲ 0.123</b>
ppm Water	ppm ASTM D6304	>500	<b>▲ 2610</b>	58.3	<b>▲ 1230</b>

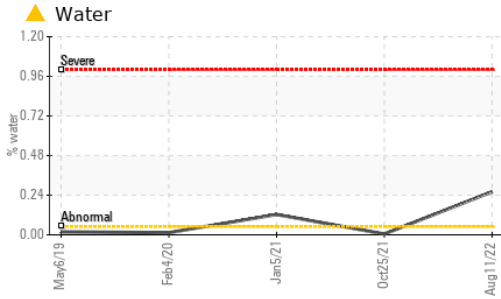
## FLUID CLEANLINESS

	method	limit/base	current	history 1	history 2
Particles >4µm	ASTM D7647		<b>---</b>	2745	<b>---</b>
Particles >6µm	ASTM D7647	>1300	<b>---</b>	1070	<b>---</b>
Particles >14µm	ASTM D7647	>80	<b>---</b>	<b>▲ 105</b>	<b>---</b>
Particles >21µm	ASTM D7647	>20	<b>---</b>	20	<b>---</b>
Particles >38µm	ASTM D7647	>4	<b>---</b>	2	<b>---</b>
Particles >71µm	ASTM D7647	>3	<b>---</b>	0	<b>---</b>
Oil Cleanliness	ISO 4406 (c)	>--/17/13	<b>---</b>	<b>▲ 17/14</b>	<b>---</b>

## FLUID DEGRADATION

	method	limit/base	current	history 1	history 2
Acid Number (AN)	mg KOH/g ASTM D8045	0.4	<b>0.30</b>	0.266	0.262

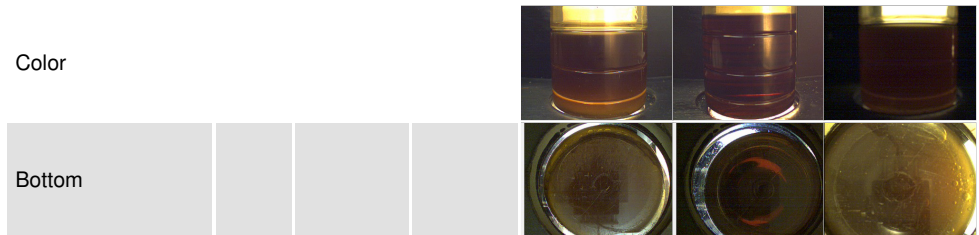
# OIL ANALYSIS REPORT



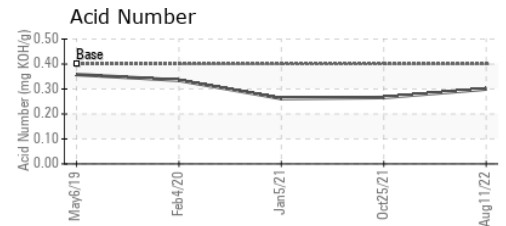
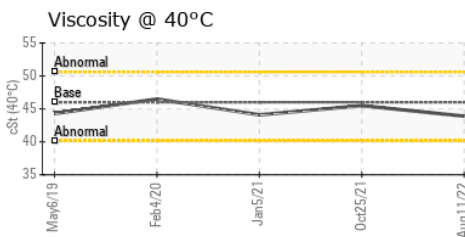
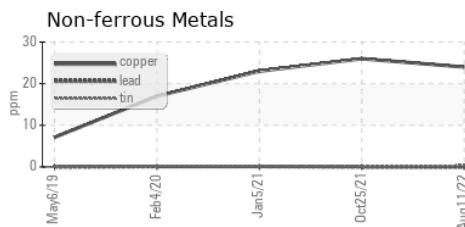
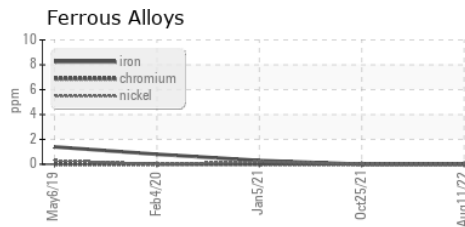
VISUAL	method	limit/base	current	history 1	history 2
White Metal	scalar	*Visual	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	▲ MODER	▲ MODER
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>0.05	0.2%	▲ 0.2%
Free Water	scalar	*Visual		▲ 1.0	▲ 1.0

FLUID PROPERTIES	method	limit/base	current	history 1	history 2
Visc @ 40°C	cSt	ASTM D445	46	43.9	45.5

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.** : KCP50040 **Received** : 14 Sep 2022  
**Lab Number** : 05641625 **Diagnosed** : 15 Sep 2022  
**Unique Number** : 10131155 **Diagnostician** : Angela Borella  
**Test Package** : IND 2 ( Additional Tests: KF, PrtCount )

**RBM OF ATLANTA**  
 7640 ROSWELL RD  
 ATLANTA, GA  
 USA 30350  
 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: