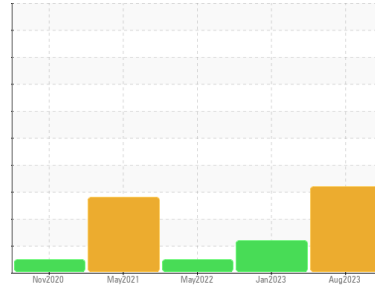




# PROBLEM SUMMARY

Sample Rating Trend



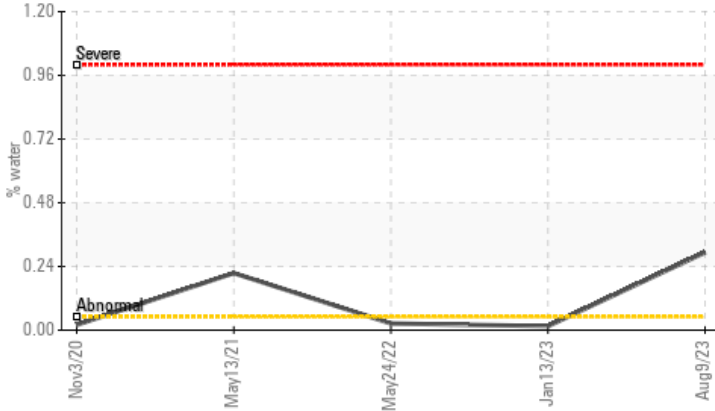
**WATER**



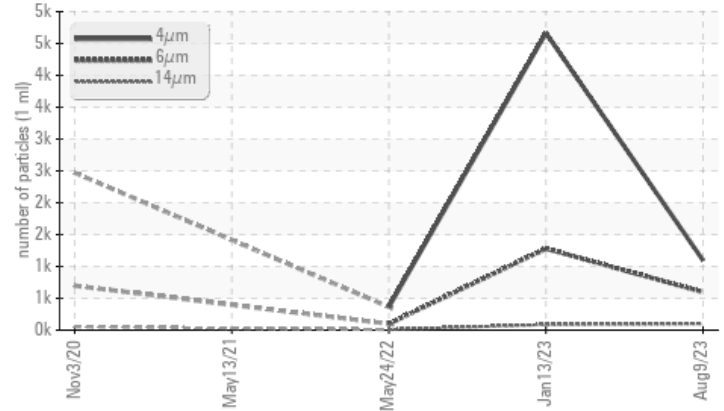
Machine Id  
**KAESER SFC 22 7011186 (S/N 1041)**  
 Component  
**Compressor**  
 Fluid  
**KAESER SIGMA (OEM) S-460 (--- GAL)**

## COMPONENT CONDITION SUMMARY

▲ Water



▲ Particle Trend



## RECOMMENDATION

Oil and filter change at the time of sampling has been noted. We recommend an early resample in 500 hours to monitor this condition.

## PROBLEMATIC TEST RESULTS

Sample Status				<b>ABNORMAL</b>	ATTENTION	NORMAL
Water	%	ASTM D6304	>0.05	▲ <b>0.293</b>	0.015	0.025
ppm Water	ppm	ASTM D6304	>500	▲ <b>2930</b>	155.5	255.6
Particles >14µm		ASTM D7647	>80	▲ <b>102</b>	▲ 88	8
Particles >21µm		ASTM D7647	>20	▲ <b>34</b>	▲ 25	2
Particles >38µm		ASTM D7647	>4	▲ <b>5</b>	2	1
Oil Cleanliness		ISO 4406 (c)	>--/17/13	▲ <b>17/16/14</b>	▲ 19/17/14	16/14/10

Customer Id: IMALOU  
 Sample No.: KCP48063  
 Lab Number: 05930898  
 Test Package: IND 2



To manage this report scan the QR code

To discuss the diagnosis or test data:  
 Jonathan Hester +1 919-379-4092 x4092  
[jhester@wearcheckusa.com](mailto:jhester@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
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

### 13 Jan 2023 Diag: Don Baldrige

ISO



No corrective action is recommended at this time. 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



### 24 May 2022 Diag: Angela Borella

NORMAL



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. 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



### 13 May 2021 Diag: Don Baldrige

WATER



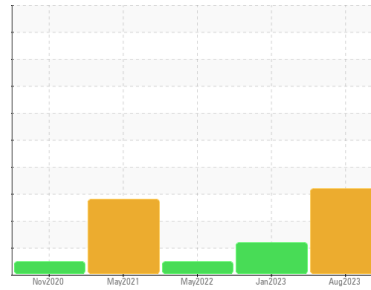
We advise that you stop the unit and follow the water drain-off procedure for this component. The filter change at the time of sampling has been noted. We recommend an early resample in 500 hours to monitor this condition. We were unable to perform a particle count due to a high concentration of particles 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. The AN level is acceptable for this fluid.

view report



# OIL ANALYSIS REPORT

Sample Rating Trend



**WATER**



Machine Id  
**KAESER SFC 22 7011186 (S/N 1041)**

Component

**Compressor**

Fluid

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

## DIAGNOSIS

### ▲ Recommendation

Oil and filter change at the time of sampling has been noted. We recommend an early resample in 500 hours to monitor this condition.

### Wear

All component wear rates are normal.

### ▲ Contamination

There is a moderate amount of particulates present in the oil. There is a light concentration of water 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>KCP48063</b>	KCP52228	KC106079
Sample Date	Client Info		<b>09 Aug 2023</b>	13 Jan 2023	24 May 2022
Machine Age	hrs	Client Info	<b>5036</b>	4394	3673
Oil Age	hrs	Client Info	<b>1363</b>	721	2398
Oil Changed	Client Info		<b>Changed</b>	Not Changd	Changed
Sample Status			<b>ABNORMAL</b>	ATTENTION	NORMAL

## WEAR METALS

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

## ADDITIVES

	method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	<b>0</b>	0	2
Barium	ppm	ASTM D5185m 90	<b>0</b>	1	0
Molybdenum	ppm	ASTM D5185m	<b>0</b>	0	0
Manganese	ppm	ASTM D5185m	<b>&lt;1</b>	<1	<1
Magnesium	ppm	ASTM D5185m 90	<b>52</b>	61	58
Calcium	ppm	ASTM D5185m 2	<b>&lt;1</b>	<1	<1
Phosphorus	ppm	ASTM D5185m	<b>2</b>	2	56
Zinc	ppm	ASTM D5185m	<b>12</b>	13	20
Sulfur	ppm	ASTM D5185m	<b>21223</b>	17539	25510

## CONTAMINANTS

	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m >25	<b>1</b>	3	4
Sodium	ppm	ASTM D5185m	<b>8</b>	15	18
Potassium	ppm	ASTM D5185m >20	<b>4</b>	10	16
Water	%	ASTM D6304 >0.05	<b>▲ 0.293</b>	0.015	0.025
ppm Water	ppm	ASTM D6304 >500	<b>▲ 2930</b>	155.5	255.6

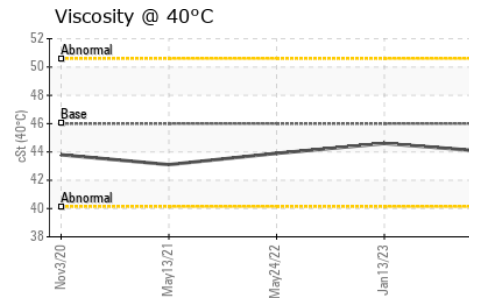
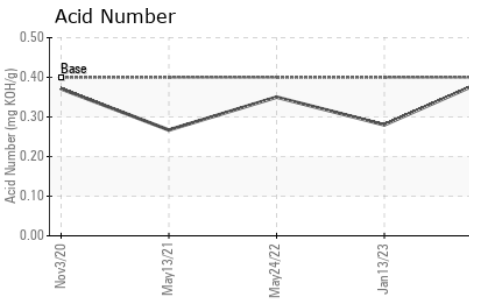
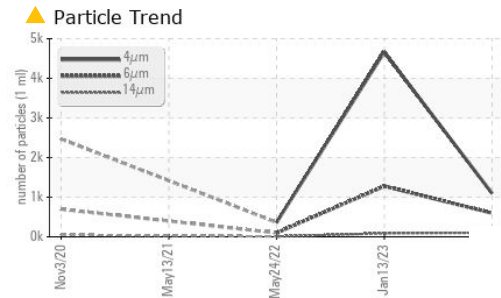
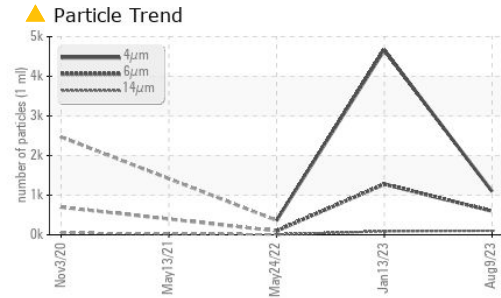
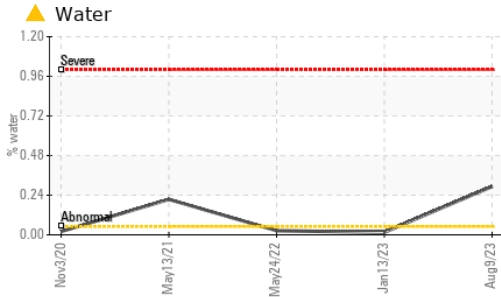
## FLUID CLEANLINESS

	method	limit/base	current	history1	history2
Particles >4µm	ASTM D7647		<b>1096</b>	4664	364
Particles >6µm	ASTM D7647 >1300		<b>597</b>	1279	99
Particles >14µm	ASTM D7647 >80		<b>▲ 102</b>	▲ 88	8
Particles >21µm	ASTM D7647 >20		<b>▲ 34</b>	▲ 25	2
Particles >38µm	ASTM D7647 >4		<b>▲ 5</b>	2	1
Particles >71µm	ASTM D7647 >3		<b>1</b>	1	0
Oil Cleanliness	ISO 4406 (c)	>--/17/13	<b>▲ 17/16/14</b>	▲ 19/17/14	16/14/10

## FLUID DEGRADATION

	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045 0.4	<b>0.40</b>	0.28	0.35

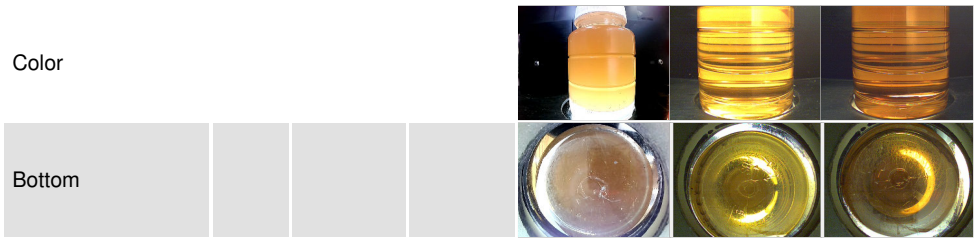
# OIL ANALYSIS REPORT



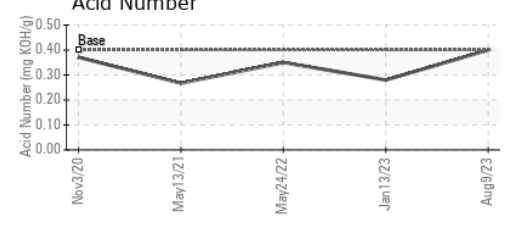
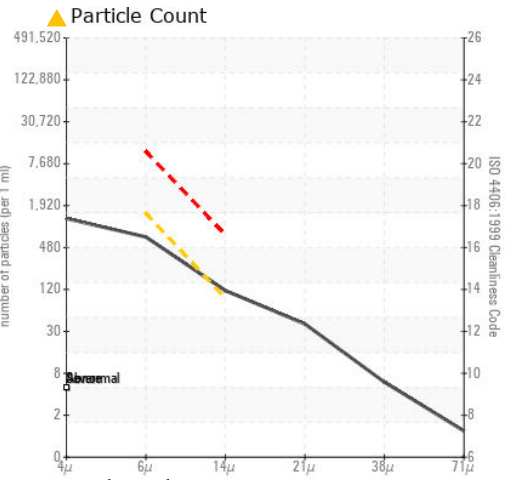
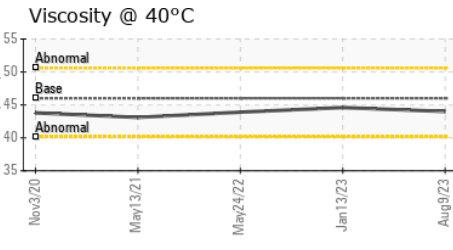
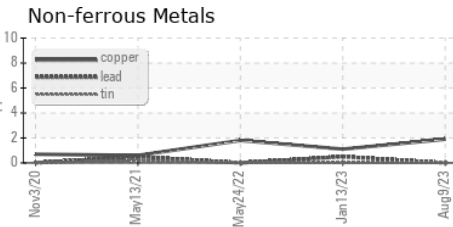
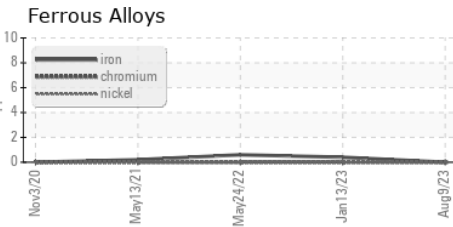
VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>0.05	0.2%	NEG
Free Water	scalar	*Visual		NEG	NEG

FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	46	44.0	44.6

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



**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : KCP48063 **Received** : 22 Aug 2023  
**Lab Number** : 05930898 **Diagnosed** : 25 Aug 2023  
**Unique Number** : 10616169 **Diagnostician** : Jonathan Hester  
**Test Package** : IND 2 ( Additional Tests: KF, PrtCount )

**IMA**  
 521 INDUSTRY RD  
 LOUISVILLE, KY  
 US 40208  
 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: