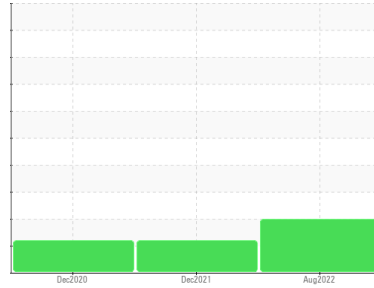


# PROBLEM SUMMARY

Sample Rating Trend



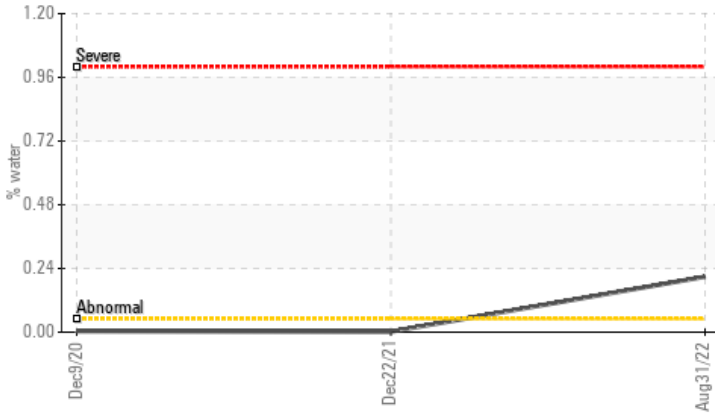
**WATER**



Machine Id  
**6919678 (S/N 1541)**  
Component  
**Compressor**  
Fluid  
**KAESER SIGMA (OEM) FG-460 (--- GAL)**

## COMPONENT CONDITION SUMMARY

▲ Water



## RECOMMENDATION

Oil and filter change at the time of sampling has been noted. We were unable to perform a particle count on this sample. We recommend an early resample in 500 hours to monitor this condition.

## PROBLEMATIC TEST RESULTS

Sample Status				<b>ABNORMAL</b>	ABNORMAL	ABNORMAL
Water	%	ASTM D6304	>0.05	▲ <b>0.209</b>	0.002	0.004
ppm Water	ppm	ASTM D6304	>500	▲ <b>2090</b>	18.5	49.8
Debris	scalar	*Visual	NONE	▲ <b>LIGHT</b>	NONE	NONE

Customer Id: NICLOG  
Sample No.: KC97125  
Lab Number: 05636583  
Test Package: IND 2



To manage this report scan the QR code

To discuss the diagnosis or test data:  
Doug Bogart +1 (800)237-1369 x4016  
[dougb@wearcheckusa.com](mailto:dougb@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.
Alert	---	---	?	We were unable to perform a particle count due to a high concentration of particles present in this sample.

## HISTORICAL DIAGNOSIS

### 22 Dec 2021 Diag: Jonathan Hester

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



### 09 Dec 2020 Diag: Doug Bogart

ISO



Oil and filter change at the time of sampling has been noted. No corrective action is recommended at this time. 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. 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

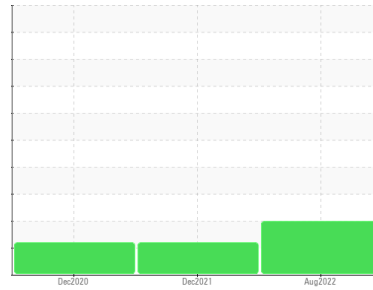




Machine Id  
**6919678 (S/N 1541)**

Component  
**Compressor**

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



**DIAGNOSIS**

▲ **Recommendation**

Oil and filter change at the time of sampling has been noted. We were unable to perform a particle count on this sample. We recommend an early resample in 500 hours to monitor this condition.

**Wear**

All component wear rates are normal.

▲ **Contamination**

Appearance is hazy. There is a moderate concentration of water present in the oil. Light concentration of visible dirt/debris present in the oil.

**Fluid Condition**

The AN level is acceptable for this fluid.

SAMPLE INFORMATION		method	limit/base	current	history 1	history 2
Sample Number				<b>KC97125</b>	KC98489	KC79987
Sample Date				<b>31 Aug 2022</b>	22 Dec 2021	09 Dec 2020
Machine Age	hrs			<b>10764</b>	7342	3097
Oil Age	hrs			<b>3000</b>	4244	3097
Oil Changed				<b>Changed</b>	Changed	Changed
Sample Status				<b>ABNORMAL</b>	ABNORMAL	ABNORMAL

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	<1
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>&lt;1</b>	0	0
Aluminum	ppm	ASTM D5185m	>10	<b>4</b>	4	0
Lead	ppm	ASTM D5185m	>10	<b>0</b>	0	<1
Copper	ppm	ASTM D5185m	>50	<b>6</b>	4	13
Tin	ppm	ASTM D5185m	>10	<b>&lt;1</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

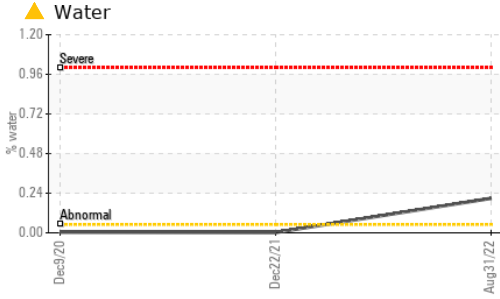
ADDITIVES		method	limit/base	current	history 1	history 2
Boron	ppm	ASTM D5185m		<b>0</b>	0	<1
Barium	ppm	ASTM D5185m		<b>0</b>	0	0
Molybdenum	ppm	ASTM D5185m		<b>0</b>	0	0
Manganese	ppm	ASTM D5185m		<b>0</b>	0	<1
Magnesium	ppm	ASTM D5185m		<b>&lt;1</b>	0	<1
Calcium	ppm	ASTM D5185m		<b>&lt;1</b>	0	2
Phosphorus	ppm	ASTM D5185m	500	<b>69</b>	125	120
Zinc	ppm	ASTM D5185m		<b>71</b>	98	153

CONTAMINANTS		method	limit/base	current	history 1	history 2
Silicon	ppm	ASTM D5185m	>25	<b>0</b>	0	<1
Sodium	ppm	ASTM D5185m		<b>0</b>	1	0
Potassium	ppm	ASTM D5185m	>20	<b>&lt;1</b>	0	0
Water	%	ASTM D6304	>0.05	▲ <b>0.209</b>	0.002	0.004
ppm Water	ppm	ASTM D6304	>500	▲ <b>2090</b>	18.5	49.8

FLUID CLEANLINESS		method	limit/base	current	history 1	history 2
Particles >4µm		ASTM D7647		<b>---</b>	6920	12544
Particles >6µm		ASTM D7647	>1300	<b>---</b>	▲ 2375	▲ 5791
Particles >14µm		ASTM D7647	>80	<b>---</b>	▲ 202	▲ 903
Particles >21µm		ASTM D7647	>20	<b>---</b>	▲ 52	▲ 189
Particles >38µm		ASTM D7647	>4	<b>---</b>	0	3
Particles >71µm		ASTM D7647	>3	<b>---</b>	0	0
Oil Cleanliness		ISO 4406 (c)	>--/17/13	<b>---</b>	▲ 18/15	▲ 20/17

FLUID DEGRADATION		method	limit/base	current	history 1	history 2
Acid Number (AN)	mg KOH/g	ASTM D8045	1.5	<b>0.31</b>	0.35	0.396

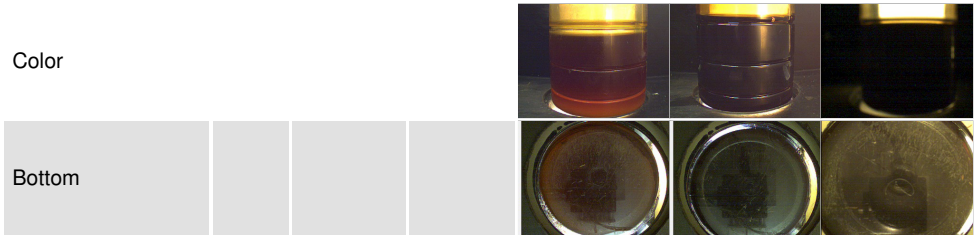
# OIL ANALYSIS REPORT



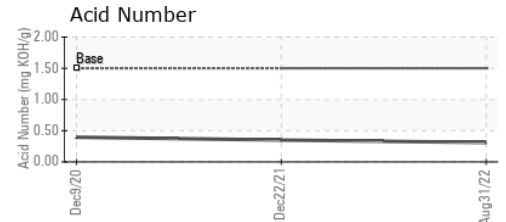
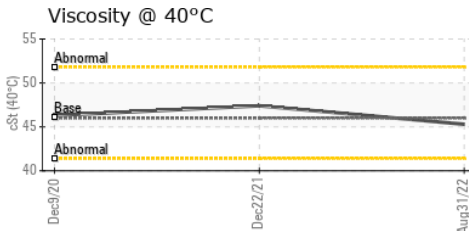
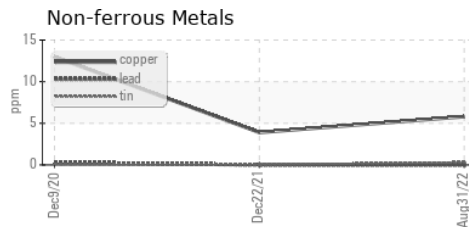
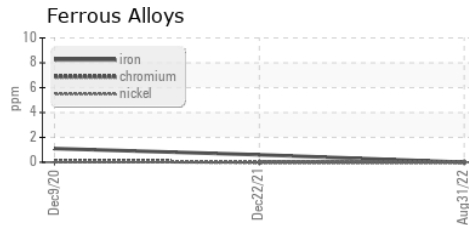
VISUAL	method	limit/base	current	history 1	history 2
White Metal	scalar	*Visual	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE
Appearance	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	history 1	history 2
Visc @ 40°C	cSt	ASTM D445	46	45.3	47.4

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. : KC97125  
 Lab Number : 05636583  
 Unique Number : 10126113  
 Test Package : IND 2

Received : 08 Sep 2022  
 Diagnosed : 15 Sep 2022  
 Diagnostician : Doug Bogart

**NICHOLAS MEATS**  
 508 E VALLEY RD  
 LOGANTON, PA  
 USA 17747  
 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: