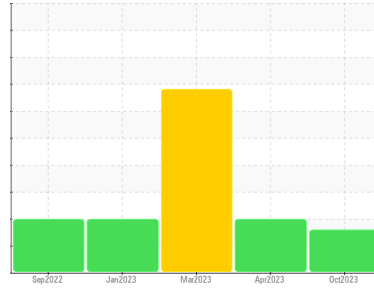




# PROBLEM SUMMARY

Sample Rating Trend



ISO



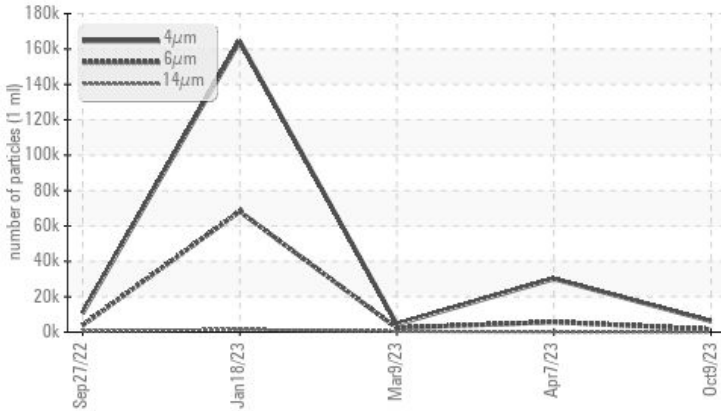
Machine Id  
**KAESER CSD 125 7833217 (S/N 1080)**

Component  
**Compressor**

Fluid  
**KAESER SIGMA (OEM) FG-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			ATTENTION	ABNORMAL	ABNORMAL
Particles >6µm	ASTM D7647	>1300	▲ <b>1637</b>	▲ 5703	▲ 2379
Particles >14µm	ASTM D7647	>80	▲ <b>106</b>	▲ 135	▲ 405
Particles >21µm	ASTM D7647	>20	▲ <b>22</b>	20	▲ 136
Oil Cleanliness	ISO 4406 (c)	>--/17/13	▲ <b>20/18/14</b>	▲ 22/20/14	▲ 19/18/16

Customer Id: FLOEUS  
Sample No.: KC124537  
Lab Number: 05980444  
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

### 07 Apr 2023 Diag: Jonathan Hester

#### WEAR



We recommend you service the filters on this component. Resample at the next service interval to monitor. The aluminum level is abnormal. All other 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 Mar 2023 Diag: Don Baldrige

#### WATER



The filter change at the time of sampling has been noted. 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. The aluminum level is abnormal. All other component wear rates are normal. There is a high amount of particulates 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



### 18 Jan 2023 Diag: Jonathan Hester

#### ISO



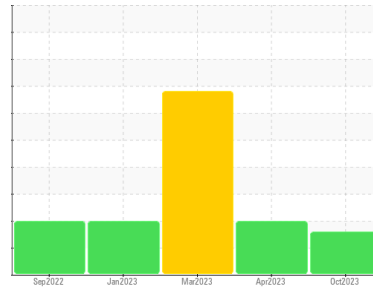
Oil and filter change at the time of sampling has been noted. Resample at the next service interval to monitor. All component wear rates are normal. There is a high amount of particulates present in the oil. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

view report



# OIL ANALYSIS REPORT

Sample Rating Trend



ISO



Machine Id  
**KAESER CSD 125 7833217 (S/N 1080)**

Component

**Compressor**

Fluid

**KAESER SIGMA (OEM) FG-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 moderate 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>KC124537</b>	KC112367	KC112363
Sample Date	Client Info	<b>09 Oct 2023</b>	07 Apr 2023	09 Mar 2023
Machine Age	hrs	<b>8145</b>	4823	4499
Oil Age	hrs	<b>0</b>	408	100
Oil Changed	Client Info	<b>N/A</b>	Not Changd	Not Changd
Sample Status		<b>ATTENTION</b>	ABNORMAL	ABNORMAL

## WEAR METALS

method	limit/base	current	history1	history2
Iron	ppm ASTM D5185m >50	<b>0</b>	7	7
Chromium	ppm ASTM D5185m >10	<b>0</b>	0	0
Nickel	ppm ASTM D5185m >3	<b>&lt;1</b>	0	0
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>2</b>	▲ 22	▲ 29
Lead	ppm ASTM D5185m >10	<b>0</b>	0	0
Copper	ppm ASTM D5185m >50	<b>2</b>	<1	<1
Tin	ppm ASTM D5185m >10	<b>&lt;1</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	history1	history2
Boron	ppm ASTM D5185m	<b>0</b>	0	0
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>	<1	<1
Magnesium	ppm ASTM D5185m	<b>2</b>	1	1
Calcium	ppm ASTM D5185m	<b>&lt;1</b>	0	0
Phosphorus	ppm ASTM D5185m 500	<b>121</b>	574	582
Zinc	ppm ASTM D5185m	<b>173</b>	322	228

## CONTAMINANTS

method	limit/base	current	history1	history2
Silicon	ppm ASTM D5185m >25	<b>0</b>	0	<1
Sodium	ppm ASTM D5185m	<b>0</b>	1	<1
Potassium	ppm ASTM D5185m >20	<b>2</b>	2	1
Water	% ASTM D6304 >0.05	<b>0.002</b>	0.011	▲ 0.184
ppm Water	ppm ASTM D6304 >500	<b>24.7</b>	110.5	▲ 1840

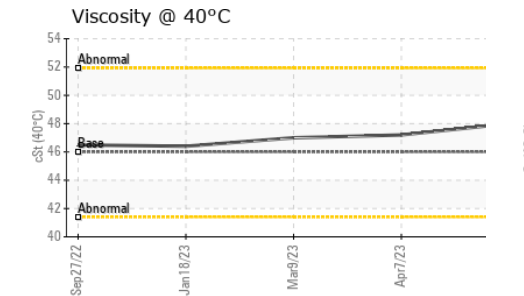
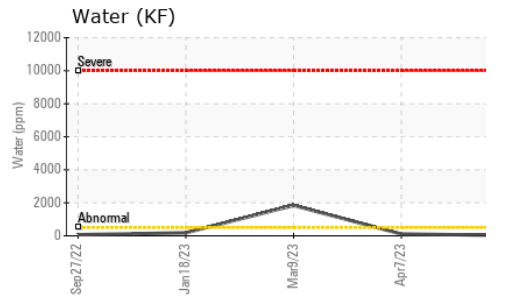
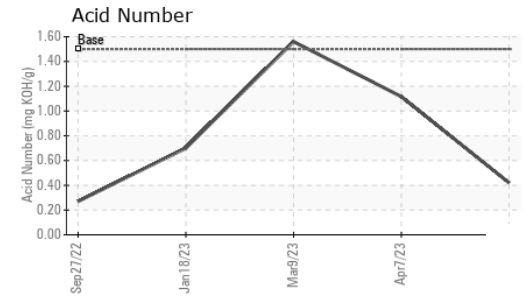
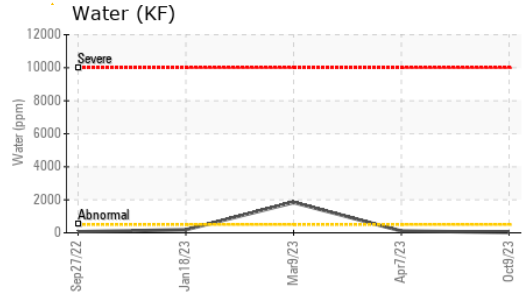
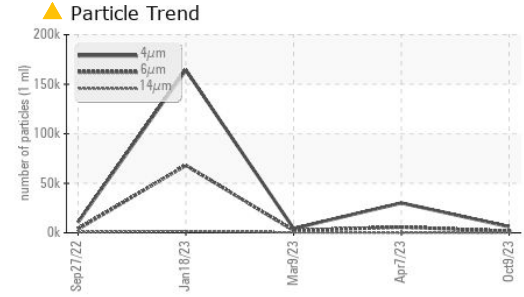
## FLUID CLEANLINESS

method	limit/base	current	history1	history2
Particles >4µm	ASTM D7647	<b>6167</b>	30129	4367
Particles >6µm	ASTM D7647 >1300	▲ <b>1637</b>	▲ 5703	▲ 2379
Particles >14µm	ASTM D7647 >80	▲ <b>106</b>	▲ 135	▲ 405
Particles >21µm	ASTM D7647 >20	▲ <b>22</b>	20	▲ 136
Particles >38µm	ASTM D7647 >4	<b>0</b>	1	▲ 21
Particles >71µm	ASTM D7647 >3	<b>0</b>	0	2
Oil Cleanliness	ISO 4406 (c) >--/17/13	▲ <b>20/18/14</b>	▲ 22/20/14	▲ 19/18/16

## FLUID DEGRADATION

method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g ASTM D8045 1.5	<b>0.42</b>	1.116	1.56

# OIL ANALYSIS REPORT

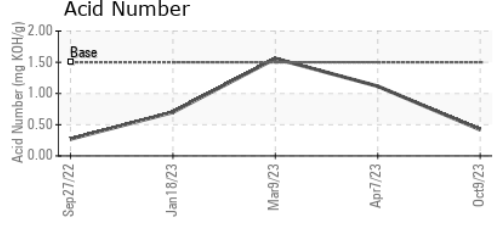
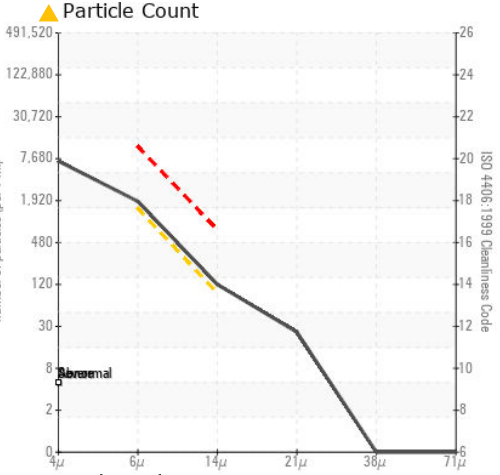
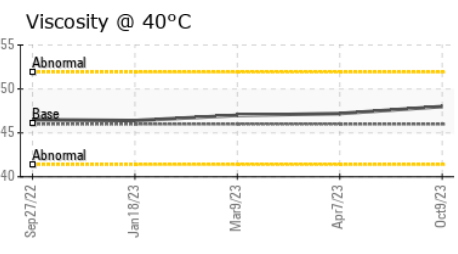
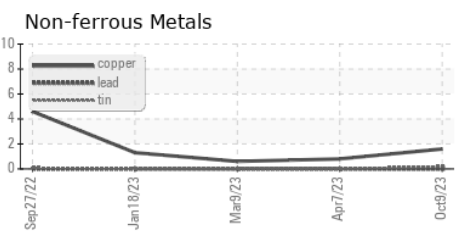
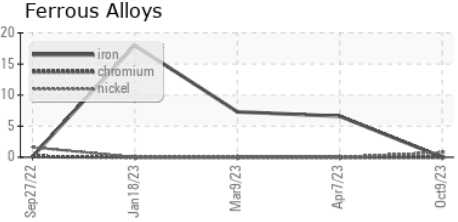


PARAMETER	method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	▲ HAZY
Odor	scalar	*Visual	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>0.05	NEG	▲ 0.2%
Free Water	scalar	*Visual		NEG	▲ 1.0

FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445 46	48.0	47.2	47.0

SAMPLE IMAGES	method	limit/base	current	history1	history2
Color					
Bottom					

## GRAPHS



**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : KC124537 **Received** : 16 Oct 2023  
**Lab Number** : 05980444 **Diagnosed** : 18 Oct 2023  
**Unique Number** : 10697739 **Diagnostician** : Don Baldrige  
**Test Package** : IND 2

**FLORIDA FOODS PRODUCTS**  
 2231 WEST HWY 44  
 EUSTIS, FL  
 US 32726  
 Contact:

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: