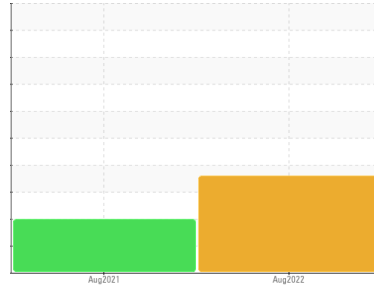


# PROBLEM SUMMARY

Sample Rating Trend



**WATER**



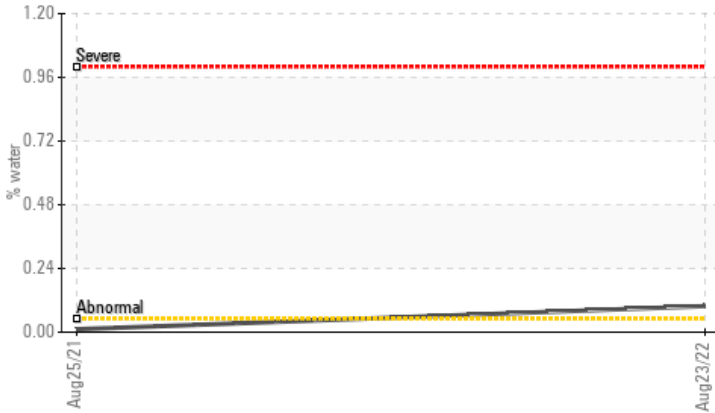
Machine Id  
**4988439 (S/N 1387)**

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 due to a high concentration of particles present in this sample. We recommend an early resample in 500 hours to monitor this condition.

## PROBLEMATIC TEST RESULTS

Sample Status				<b>ABNORMAL</b>	ABNORMAL	---
Water	%	ASTM D6304	>0.05	▲ <b>0.098</b>	0.011	---
ppm Water	ppm	ASTM D6304	>500	▲ <b>980</b>	116.6	---
Debris	scalar	*Visual	NONE	▲ <b>MODER</b>	LIGHT	---
Free Water	scalar	*Visual		▲ <b>1.0</b>	NEG	---

Customer Id: CARBURKCP  
Sample No.: KCP19548  
Lab Number: 05629586  
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

25 Aug 2021 Diag: Don Baldrige

### WEAR



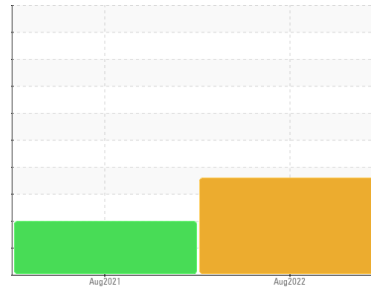
No corrective action is recommended at this time. Oil and filter change at the time of sampling has been noted. Resample at the next service interval to monitor. The aluminum level is abnormal. All other component wear rates are normal. There is a high amount of particulates present in the oil. The AN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

view report



# OIL ANALYSIS REPORT

## Sample Rating Trend



**WATER**



Machine Id  
**4988439 (S/N 1387)**

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 due to a high concentration of particles present in this sample. We recommend an early resample in 500 hours to monitor this condition.

#### Wear

All component wear rates are normal.

#### ▲ Contamination

Free water present. There is a light concentration of water present in the oil. Moderate 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>KCP19548</b>	KCP42414	---
Sample Date			<b>23 Aug 2022</b>	25 Aug 2021	---
Machine Age	hrs		<b>20523</b>	16196	---
Oil Age	hrs		<b>4327</b>	0	---
Oil Changed			<b>Changed</b>	Changed	---
Sample Status			<b>ABNORMAL</b>	ABNORMAL	---

### WEAR METALS

	method	limit/base	current	history 1	history 2
Iron	ppm ASTM D5185m	>50	<b>2</b>	9	---
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>4</b>	▲ 43	---
Lead	ppm ASTM D5185m	>10	<b>0</b>	0	---
Copper	ppm ASTM D5185m	>50	<b>8</b>	15	---
Tin	ppm ASTM D5185m	>10	<b>0</b>	<1	---
Antimony	ppm ASTM D5185m		---	0	---
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>	<1	---
Barium	ppm ASTM D5185m		<b>&lt;1</b>	0	---
Molybdenum	ppm ASTM D5185m		<b>0</b>	0	---
Manganese	ppm ASTM D5185m		<b>0</b>	<1	---
Magnesium	ppm ASTM D5185m		<b>0</b>	1	---
Calcium	ppm ASTM D5185m		<b>0</b>	0	---
Phosphorus	ppm ASTM D5185m	500	<b>183</b>	393	---
Zinc	ppm ASTM D5185m		<b>199</b>	244	---
Sulfur	ppm ASTM D5185m		<b>1381</b>	1458	---

### CONTAMINANTS

	method	limit/base	current	history 1	history 2
Silicon	ppm ASTM D5185m	>25	<b>0</b>	<1	---
Sodium	ppm ASTM D5185m		<b>0</b>	0	---
Potassium	ppm ASTM D5185m	>20	<b>0</b>	5	---
Water	% ASTM D6304	>0.05	▲ <b>0.098</b>	0.011	---
ppm Water	ppm ASTM D6304	>500	▲ <b>980</b>	116.6	---

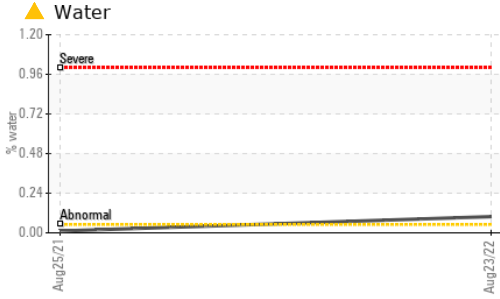
### FLUID CLEANLINESS

	method	limit/base	current	history 1	history 2
Particles >4µm	ASTM D7647		---	20415	---
Particles >6µm	ASTM D7647	>1300	---	▲ 4013	---
Particles >14µm	ASTM D7647	>80	---	▲ 231	---
Particles >21µm	ASTM D7647	>20	---	▲ 61	---
Particles >38µm	ASTM D7647	>4	---	3	---
Particles >71µm	ASTM D7647	>3	---	0	---
Oil Cleanliness	ISO 4406 (c)	>--/17/13	---	▲ 19/15	---

### FLUID DEGRADATION

	method	limit/base	current	history 1	history 2
Acid Number (AN)	mg KOH/g ASTM D8045	1.5	<b>0.48</b>	0.894	---

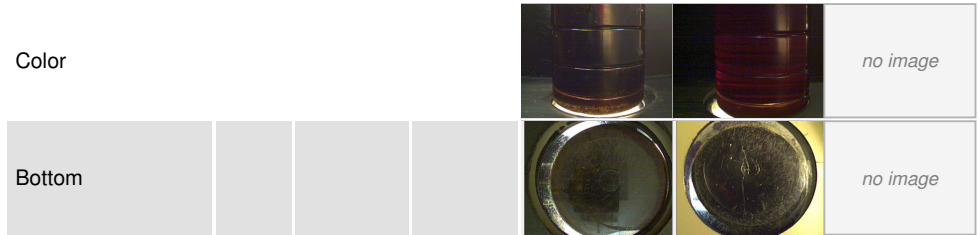
# OIL ANALYSIS REPORT



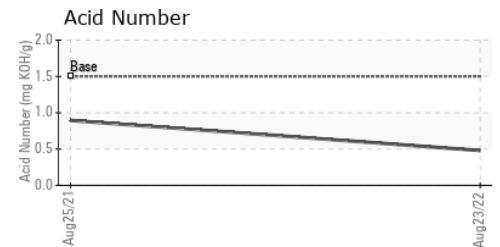
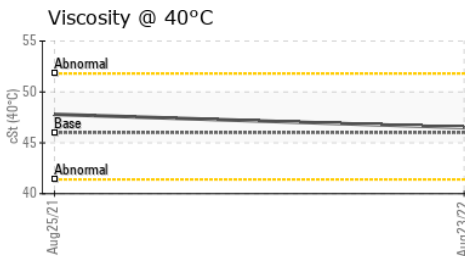
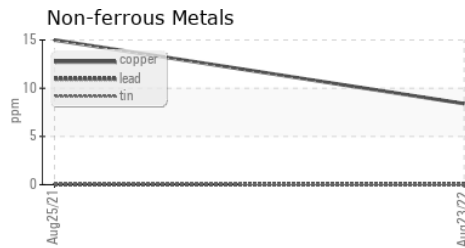
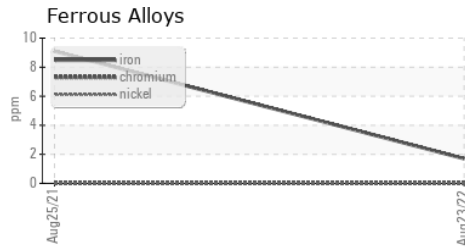
VISUAL	method	limit/base	current	history 1	history 2
White Metal	scalar	*Visual	NONE	NONE	---
Yellow Metal	scalar	*Visual	NONE	NONE	---
Precipitate	scalar	*Visual	NONE	NONE	---
Silt	scalar	*Visual	NONE	NONE	---
Debris	scalar	*Visual	NONE	▲ MODER	LIGHT
Sand/Dirt	scalar	*Visual	NONE	NONE	---
Appearance	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	46.5	47.8

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.** : KCP19548 **Received** : 29 Aug 2022  
**Lab Number** : 05629586 **Diagnosed** : 30 Aug 2022  
**Unique Number** : 10114107 **Diagnostician** : Doug Bogart  
**Test Package** : IND 2 ( Additional Tests: KF, PrtCount )

**CARDINAL FOODS**  
 201 PROGRESS DR  
 BURGAW, NC  
 USA 28425  
 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: