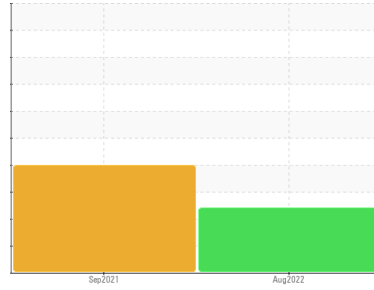


# PROBLEM SUMMARY

Sample Rating Trend



**WATER**



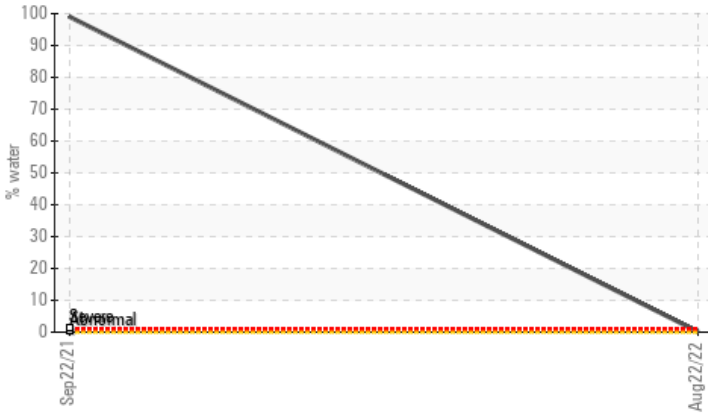
Machine Id  
**KAESER 7404751**

Component  
**Compressor**

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

## COMPONENT CONDITION SUMMARY

▲ Water



## 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>	SEVERE	---
Water	%	ASTM D6304	>0.05	▲ <b>0.126</b>	● 99.0	---
ppm Water	ppm	ASTM D6304	>500	▲ <b>1260</b>	● 990000	---
Appearance	scalar	*Visual	NORML	▲ <b>HAZY</b>	▲ MILKY	---

**Customer Id:** BLUKNO  
**Sample No.:** KCP28658  
**Lab Number:** 05628403  
**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
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

22 Sep 2021 Diag: Doug Bogart

WATER

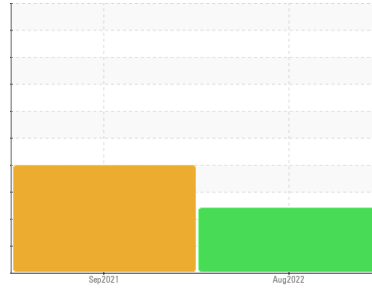


Oil and filter change at the time of sampling has been noted. We recommend an early resample in 500 hours to monitor this condition.{not applicable} Insufficient sample was received to conduct all the routine laboratory tests. Sample consists almost entirely of free water. The oil is no longer serviceable due to the presence of contaminants.

view report



Machine Id  
**KAESER 7404751**  
Component  
**Compressor**  
Fluid  
**KAESER SIGMA (OEM) M-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 light concentration of water present in the oil. The amount and size of particulates present in the system are acceptable.

**Fluid Condition**

The AN level is acceptable for this fluid. 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>KCP28658</b>	KC99428	---
Sample Date			<b>22 Aug 2022</b>	22 Sep 2021	---
Machine Age	hrs		<b>322</b>	45	---
Oil Age	hrs		<b>276</b>	45	---
Oil Changed			<b>Changed</b>	Changed	---
Sample Status			<b>ABNORMAL</b>	SEVERE	---

**WEAR METALS**    method    limit/base    current    history 1    history 2

Iron	ppm	ASTM D5185m	>50	<b>0</b>	---	---
Chromium	ppm	ASTM D5185m	>10	<b>0</b>	---	---
Nickel	ppm	ASTM D5185m	>3	<b>&lt;1</b>	---	---
Titanium	ppm	ASTM D5185m	>3	<b>0</b>	---	---
Silver	ppm	ASTM D5185m	>2	<b>&lt;1</b>	---	---
Aluminum	ppm	ASTM D5185m	>10	<b>2</b>	---	---
Lead	ppm	ASTM D5185m	>10	<b>0</b>	---	---
Copper	ppm	ASTM D5185m	>50	<b>1</b>	---	---
Tin	ppm	ASTM D5185m	>10	<b>&lt;1</b>	---	---
Vanadium	ppm	ASTM D5185m		<b>0</b>	---	---
Cadmium	ppm	ASTM D5185m		<b>0</b>	---	---

**ADDITIVES**    method    limit/base    current    history 1    history 2

Boron	ppm	ASTM D5185m	0	<b>&lt;1</b>	---	---
Barium	ppm	ASTM D5185m	90	<b>9</b>	---	---
Molybdenum	ppm	ASTM D5185m	0	<b>0</b>	---	---
Manganese	ppm	ASTM D5185m		<b>&lt;1</b>	---	---
Magnesium	ppm	ASTM D5185m	100	<b>12</b>	---	---
Calcium	ppm	ASTM D5185m	0	<b>0</b>	---	---
Phosphorus	ppm	ASTM D5185m	0	<b>1</b>	---	---
Zinc	ppm	ASTM D5185m	0	<b>41</b>	---	---
Sulfur	ppm	ASTM D5185m	23500	<b>18323</b>	---	---

**CONTAMINANTS**    method    limit/base    current    history 1    history 2

Silicon	ppm	ASTM D5185m	>25	<b>&lt;1</b>	---	---
Sodium	ppm	ASTM D5185m		<b>11</b>	---	---
Potassium	ppm	ASTM D5185m	>20	<b>2</b>	---	---
Water	%	ASTM D6304	>0.05	<b>▲ 0.126</b>	● 99.0	---
ppm Water	ppm	ASTM D6304	>500	<b>▲ 1260</b>	● 990000	---

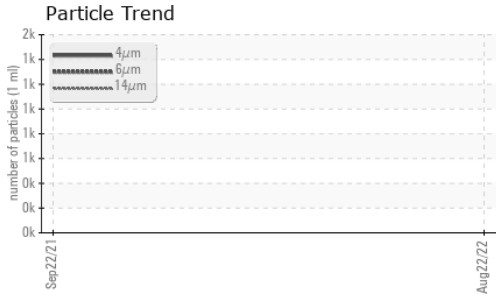
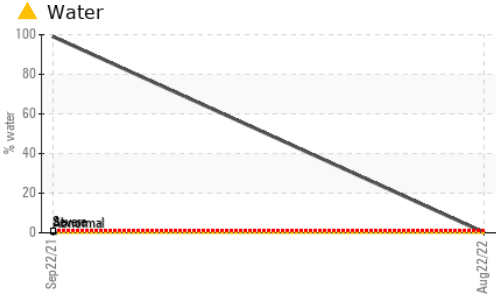
**FLUID CLEANLINESS**    method    limit/base    current    history 1    history 2

Particles >4µm		ASTM D7647		<b>1486</b>	---	---
Particles >6µm		ASTM D7647	>1300	<b>412</b>	---	---
Particles >14µm		ASTM D7647	>80	<b>13</b>	---	---
Particles >21µm		ASTM D7647	>20	<b>3</b>	---	---
Particles >38µm		ASTM D7647	>4	<b>0</b>	---	---
Particles >71µm		ASTM D7647	>3	<b>0</b>	---	---
Oil Cleanliness		ISO 4406 (c)	>--/17/13	<b>18/16/11</b>	---	---

**FLUID DEGRADATION**    method    limit/base    current    history 1    history 2

Acid Number (AN)	mg KOH/g	ASTM D8045	1.0	<b>0.20</b>	---	---
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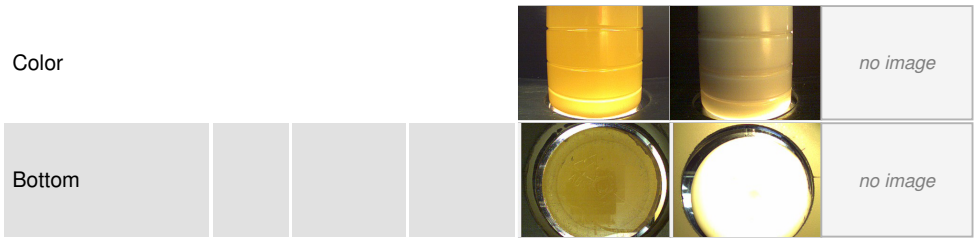
# OIL ANALYSIS REPORT



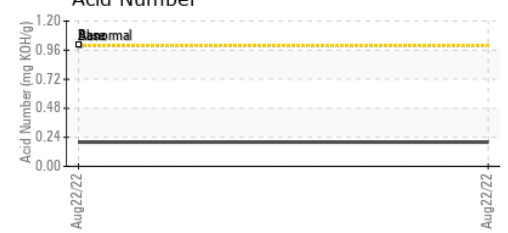
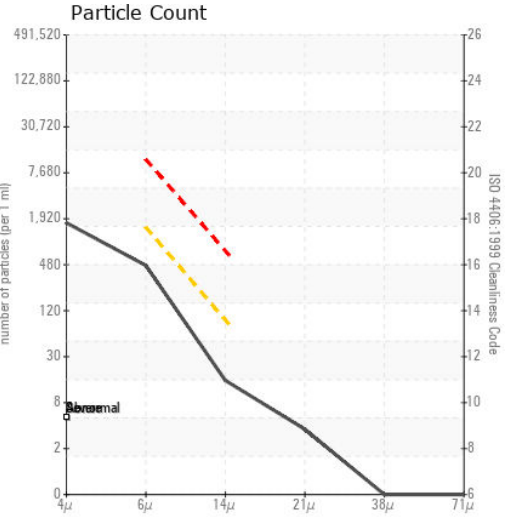
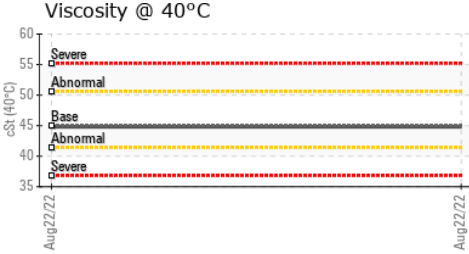
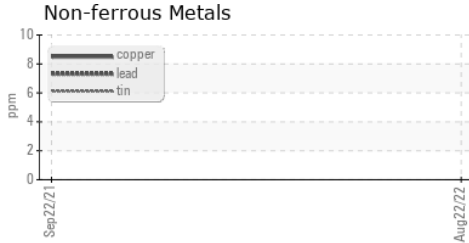
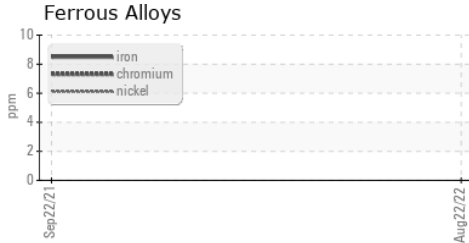
VISUAL	method	limit/base	current	history 1	history 2
White Metal	scalar	*Visual	NONE	NONE	---
Yellow Metal	scalar	*Visual	NONE	NONE	---
Precipitate	scalar	*Visual	NONE	NONE	---
Silt	scalar	*Visual	NONE	NONE	---
Debris	scalar	*Visual	NONE	NONE	VLITE
Sand/Dirt	scalar	*Visual	NONE	NONE	---
Appearance	scalar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

FLUID PROPERTIES	method	limit/base	current	history 1	history 2
Visc @ 40°C	cSt	ASTM D445	45	44.8	---

SAMPLE IMAGES	method	limit/base	current	history 1	history 2
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## GRAPHS



**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : KCP28658 **Received** : 26 Aug 2022  
**Lab Number** : 05628403 **Diagnosed** : 30 Aug 2022  
**Unique Number** : 10112924 **Diagnostician** : Angela Borella  
**Test Package** : IND 2 ( Additional Tests: KF, PrtCount )

**BLUE OCEAN INC**  
 2801 RED DOG LN  
 KNOXVILLE, TN  
 USA 37912  
 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)