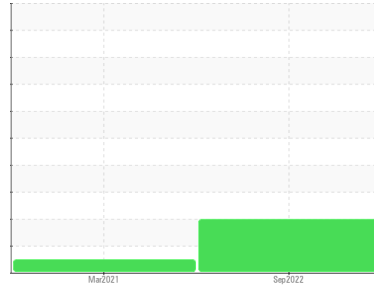


# PROBLEM SUMMARY

Sample Rating Trend



**WATER**



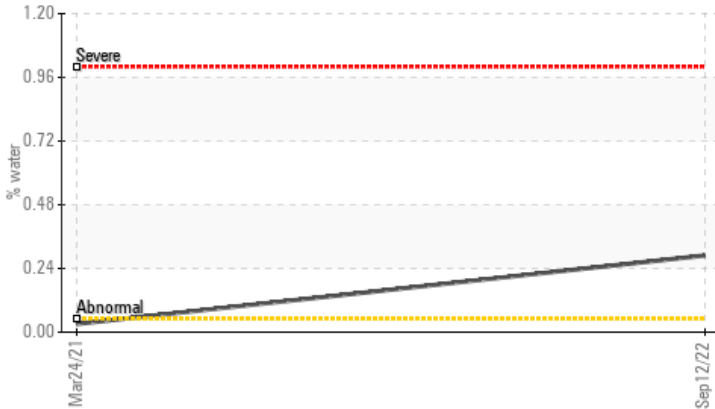
Machine Id  
**6913233 (S/N 1013)**

Component  
**Compressor**

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

## COMPONENT CONDITION SUMMARY

▲ Water



## RECOMMENDATION

We recommend you service the filters on this component. We were unable to perform a particle count due to a high concentration of particles present in this sample. 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.

## PROBLEMATIC TEST RESULTS

Sample Status				<b>ABNORMAL</b>	NORMAL	---
Water	%	ASTM D6304	>0.05	▲ <b>0.289</b>	0.031	---
ppm Water	ppm	ASTM D6304	>500	▲ <b>2890</b>	313.9	---
Debris	scalar	*Visual	NONE	▲ <b>MODER</b>	NONE	---

Customer Id: SUPSOUIL  
Sample No.: KCP50646  
Lab Number: 05646566  
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 Filter	---	---	?	We recommend you service the filters on this component.
Alert	---	---	?	We were unable to perform a particle count due to a high concentration of particles present in this sample.

## HISTORICAL DIAGNOSIS

**24 Mar 2021 Diag: Jonathan Hester**

NORMAL



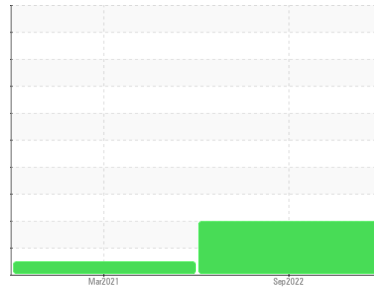
Resample at the next service interval to monitor. We were unable to perform a particle count due to insufficient sample. All component wear rates are normal. There is no indication of any contamination in the oil. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

view report



# OIL ANALYSIS REPORT

Sample Rating Trend



**WATER**



Machine Id  
**6913233 (S/N 1013)**

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

**DIAGNOSIS**

**▲ Recommendation**

We recommend you service the filters on this component. We were unable to perform a particle count due to a high concentration of particles present in this sample. 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.

**Wear**

All component wear rates are normal.

**▲ Contamination**

Light fuel dilution occurring. Moderate concentration of visible dirt/debris 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	history 1	history 2
Sample Number			<b>KCP50646</b>	KCP37229	---
Sample Date			<b>12 Sep 2022</b>	24 Mar 2021	---
Machine Age	hrs		<b>3044</b>	1198	---
Oil Age	hrs		<b>2000</b>	1198	---
Oil Changed			<b>N/A</b>	Changed	---
Sample Status			<b>ABNORMAL</b>	NORMAL	---

**WEAR METALS**

	method	limit/base	current	history 1	history 2
Iron	ppm	ASTM D5185m >50	<b>1</b>	2	---
Chromium	ppm	ASTM D5185m >10	<b>0</b>	0	---
Nickel	ppm	ASTM D5185m >3	<b>0</b>	<1	---
Titanium	ppm	ASTM D5185m >3	<b>0</b>	0	---
Silver	ppm	ASTM D5185m >2	<b>0</b>	<1	---
Aluminum	ppm	ASTM D5185m >10	<b>&lt;1</b>	<1	---
Lead	ppm	ASTM D5185m >10	<b>0</b>	<1	---
Copper	ppm	ASTM D5185m >50	<b>17</b>	2	---
Tin	ppm	ASTM D5185m >10	<b>&lt;1</b>	0	---
Antimony	ppm	ASTM D5185m	<b>---</b>	0	---
Vanadium	ppm	ASTM D5185m	<b>0</b>	0	---
Cadmium	ppm	ASTM D5185m	<b>0</b>	<1	---

**ADDITIVES**

	method	limit/base	current	history 1	history 2
Boron	ppm	ASTM D5185m 0	<b>0</b>	<1	---
Barium	ppm	ASTM D5185m 90	<b>0</b>	10	---
Molybdenum	ppm	ASTM D5185m 0	<b>0</b>	0	---
Manganese	ppm	ASTM D5185m	<b>&lt;1</b>	<1	---
Magnesium	ppm	ASTM D5185m 100	<b>20</b>	68	---
Calcium	ppm	ASTM D5185m 0	<b>1</b>	<1	---
Phosphorus	ppm	ASTM D5185m 0	<b>3</b>	<1	---
Zinc	ppm	ASTM D5185m 0	<b>30</b>	11	---
Sulfur	ppm	ASTM D5185m 23500	<b>21315</b>	17493	---

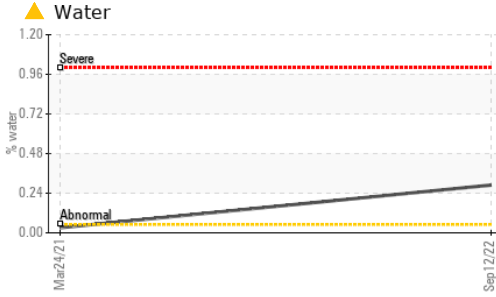
**CONTAMINANTS**

	method	limit/base	current	history 1	history 2
Silicon	ppm	ASTM D5185m >25	<b>1</b>	<1	---
Sodium	ppm	ASTM D5185m	<b>7</b>	10	---
Potassium	ppm	ASTM D5185m >20	<b>&lt;1</b>	6	---
Water	%	ASTM D6304 >0.05	<b>▲ 0.289</b>	0.031	---
ppm Water	ppm	ASTM D6304 >500	<b>▲ 2890</b>	313.9	---

**FLUID DEGRADATION**

	method	limit/base	current	history 1	history 2
Acid Number (AN)	mg KOH/g	ASTM D8045 1.0	<b>0.40</b>	0.428	---

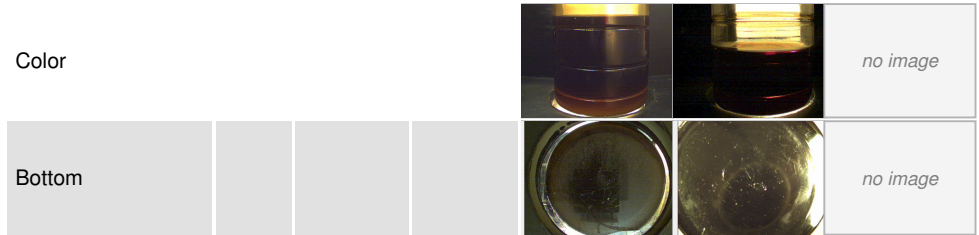
# OIL ANALYSIS REPORT



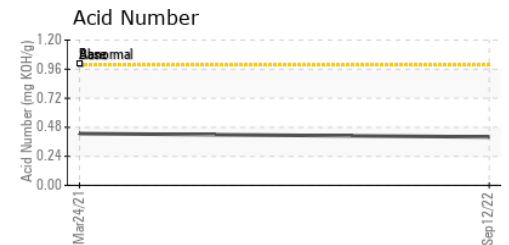
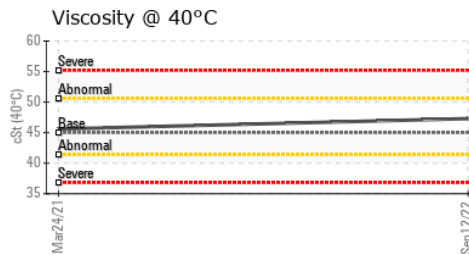
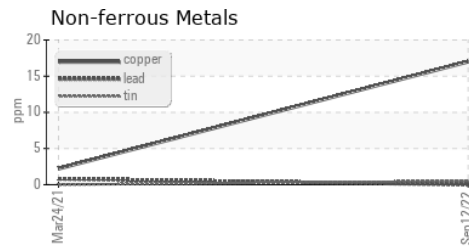
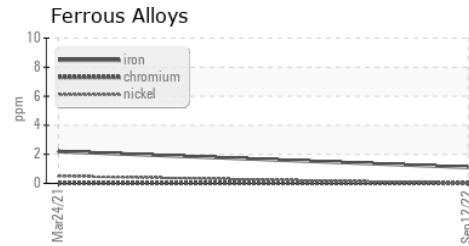
VISUAL	method	limit/base	current	history 1	history 2
White Metal	scalar	*Visual	NONE	NONE	---
Yellow Metal	scalar	*Visual	NONE	NONE	---
Precipitate	scalar	*Visual	NONE	NONE	---
Silt	scalar	*Visual	NONE	NONE	---
Debris	scalar	*Visual	NONE	▲ MODER	---
Sand/Dirt	scalar	*Visual	NONE	NONE	---
Appearance	scalar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

FLUID PROPERTIES	method	limit/base	current	history 1	history 2
Visc @ 40°C	cSt	ASTM D445	45	47.3	45.6

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.** : KCP50646 **Received** : 20 Sep 2022  
**Lab Number** : 05646566 **Diagnosed** : 21 Sep 2022  
**Unique Number** : 10141105 **Diagnostician** : Jonathan Hester  
**Test Package** : IND 2 ( Additional Tests: KF, PrtCount )

**SUPERIOR PRODUCTS CO**  
 6962 HWY 111  
 SOUTH ROXANA, IL  
 USA 62087  
 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: