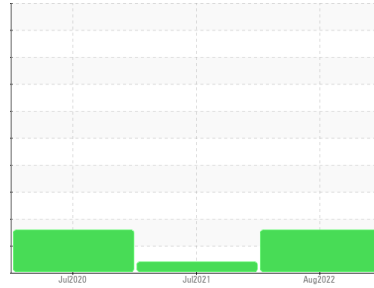




# PROBLEM SUMMARY

Sample Rating Trend

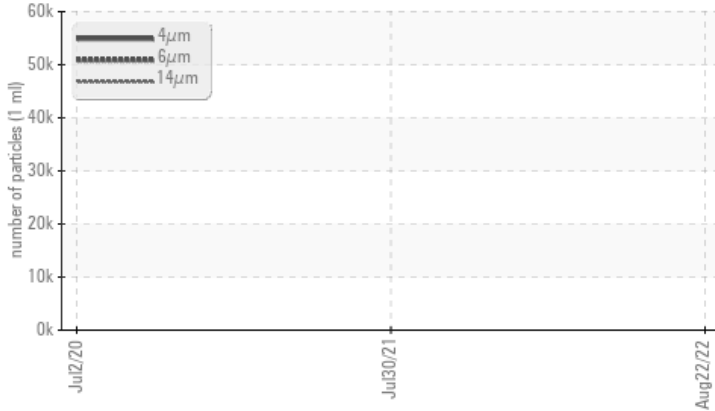


Machine Id  
**KAESER 7023264**

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

## COMPONENT CONDITION SUMMARY

▲ Particle Trend



## RECOMMENDATION

Oil and filter change at the time of sampling has been noted. No corrective action is recommended at this time. Resample at the next service interval to monitor.

## PROBLEMATIC TEST RESULTS

Sample Status			<b>ABNORMAL</b>	ABNORMAL	ABNORMAL
Particles >6µm	ASTM D7647	>1300	▲ <b>19477</b>	---	---
Particles >14µm	ASTM D7647	>80	▲ <b>537</b>	---	---
Particles >21µm	ASTM D7647	>20	▲ <b>56</b>	---	---
Oil Cleanliness	ISO 4406 (c)	>--/17/13	▲ <b>23/21/16</b>	---	---

**Customer Id:** FLOFON  
**Sample No.:** KCP50558  
**Lab Number:** 05653311  
**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

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

### 30 Jul 2021 Diag: Angela Borella

#### VIS DEBRIS



No corrective action is recommended at this time. Resample at the next service interval to monitor. 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. Moderate concentration of visible dirt/debris present in the oil. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

[view report](#)



### 02 Jul 2020 Diag: Doug Bogart

#### WATER



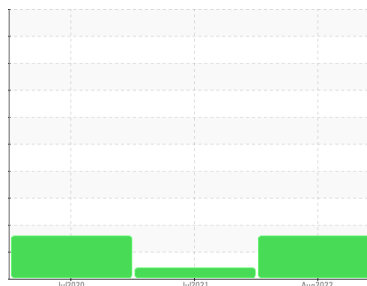
Oil and filter change at the time of sampling has been noted. We recommend an early resample in 500 hours to monitor this condition. There is too much water present in this sample to perform a particle count. All component wear rates are normal. There is a moderate concentration of water present in the oil. The AN level is acceptable for this fluid.

[view report](#)



Machine Id  
**KAESER 7023264**

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



## DIAGNOSIS

### Recommendation

Oil and filter change at the time of sampling has been noted. No corrective action is recommended at this time. Resample at the next service interval to monitor.

### Wear

All component wear rates are normal.

### Contamination

There is a high 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>KCP50558</b>	KCP32344	KCP10717
Sample Date	Client Info			<b>22 Aug 2022</b>	30 Jul 2021	02 Jul 2020
Machine Age	hrs	Client Info		<b>7212</b>	4519	1686
Oil Age	hrs	Client Info		<b>3000</b>	3000	1686
Oil Changed	Client Info			<b>Changed</b>	N/A	Changed
Sample Status				<b>ABNORMAL</b>	ABNORMAL	ABNORMAL

WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>50	<b>&lt;1</b>	<1	1
Chromium	ppm	ASTM D5185m	>10	<b>0</b>	0	0
Nickel	ppm	ASTM D5185m	>3	<b>0</b>	0	<1
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>&lt;1</b>	<1	<1
Lead	ppm	ASTM D5185m	>10	<b>0</b>	0	1
Copper	ppm	ASTM D5185m	>50	<b>2</b>	2	1
Tin	ppm	ASTM D5185m	>10	<b>0</b>	<1	0
Antimony	ppm	ASTM D5185m		<b>---</b>	0	4
Vanadium	ppm	ASTM D5185m		<b>0</b>	0	0
Cadmium	ppm	ASTM D5185m		<b>0</b>	0	0

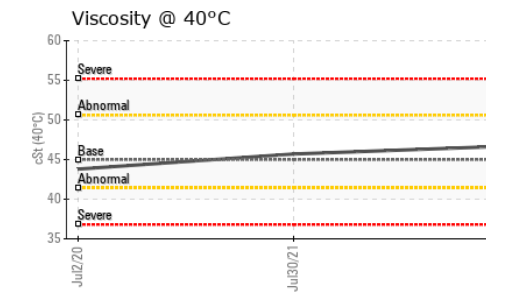
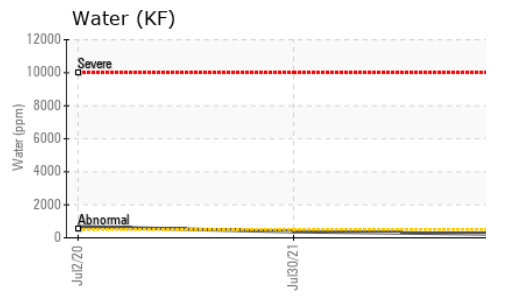
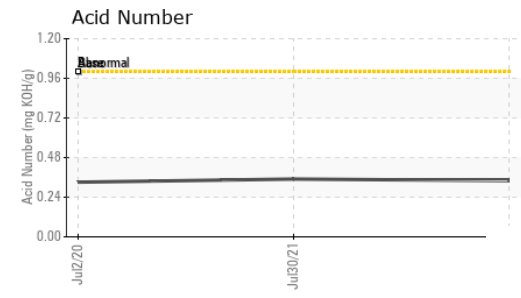
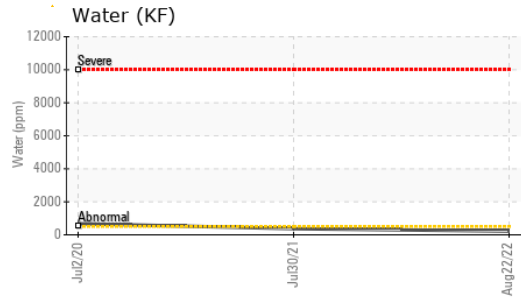
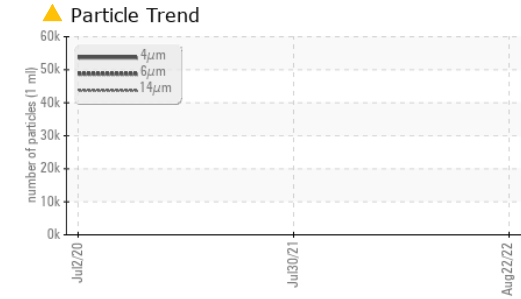
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	<b>0</b>	16	<1
Barium	ppm	ASTM D5185m	90	<b>4</b>	0	16
Molybdenum	ppm	ASTM D5185m	0	<b>0</b>	0	0
Manganese	ppm	ASTM D5185m		<b>&lt;1</b>	<1	<1
Magnesium	ppm	ASTM D5185m	100	<b>65</b>	71	62
Calcium	ppm	ASTM D5185m	0	<b>&lt;1</b>	0	<1
Phosphorus	ppm	ASTM D5185m	0	<b>1</b>	6	<1
Zinc	ppm	ASTM D5185m	0	<b>5</b>	0	6
Sulfur	ppm	ASTM D5185m	23500	<b>21544</b>	19542	16252

CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	<b>&lt;1</b>	<1	0
Sodium	ppm	ASTM D5185m		<b>15</b>	10	11
Potassium	ppm	ASTM D5185m	>20	<b>4</b>	4	1
Water	%	ASTM D6304	>0.05	<b>0.022</b>	0.037	▲ 0.067
ppm Water	ppm	ASTM D6304	>500	<b>223.2</b>	371.4	▲ 675.7

FLUID CLEANLINESS		method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647		<b>55178</b>	---	---
Particles >6µm		ASTM D7647	>1300	▲ <b>19477</b>	---	---
Particles >14µm		ASTM D7647	>80	▲ <b>537</b>	---	---
Particles >21µm		ASTM D7647	>20	▲ <b>56</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>23/21/16</b>	---	---

FLUID DEGRADATION		method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045	1.0	<b>0.34</b>	0.350	0.331

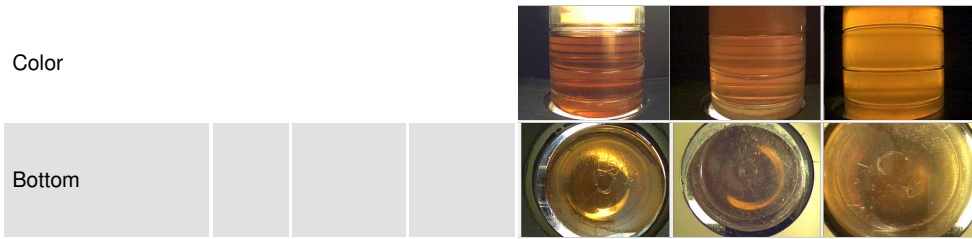
# OIL ANALYSIS REPORT



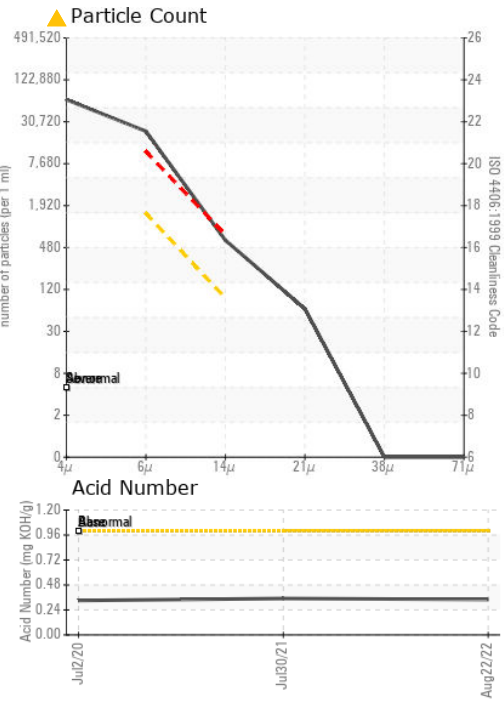
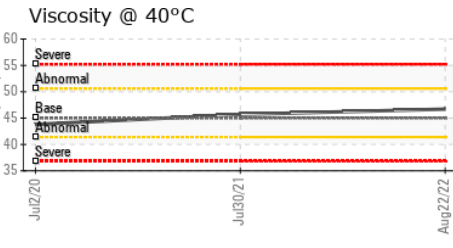
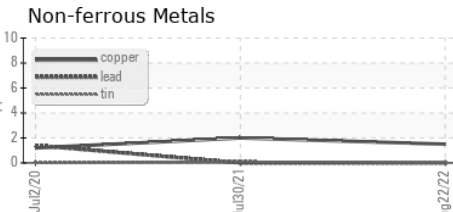
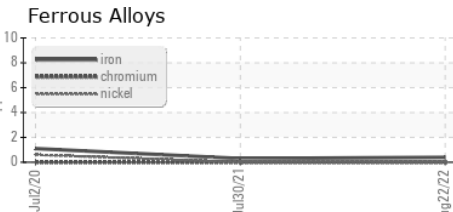
VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	LIGHT
Yellow Metal	scalar	*Visual	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	▲ MODER
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>0.05	NEG	NEG
Free Water	scalar	*Visual		NEG	NEG

FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	45	46.7	45.7

SAMPLE IMAGES	method	limit/base	current	history1	history2
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## GRAPHS



**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : KCP50558 **Received** : 28 Sep 2022  
**Lab Number** : 05653311 **Diagnosed** : 30 Sep 2022  
**Unique Number** : 10152863 **Diagnostician** : Don Baldrige  
**Test Package** : IND 2 ( Additional Tests: KF, PrtCount )

**FLOOR QUEST**  
N7799 US HWY 151  
FOND DU LAC, WI  
US 54937  
Contact: S BLANSETTE  
SBLANSETTE@QUESTINTERIORSUSA.COM  
T:  
F:

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)