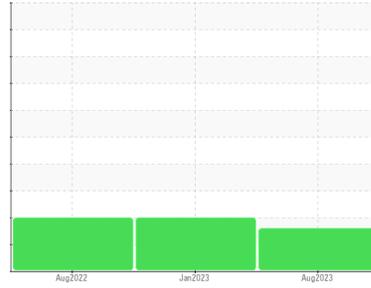




# PROBLEM SUMMARY

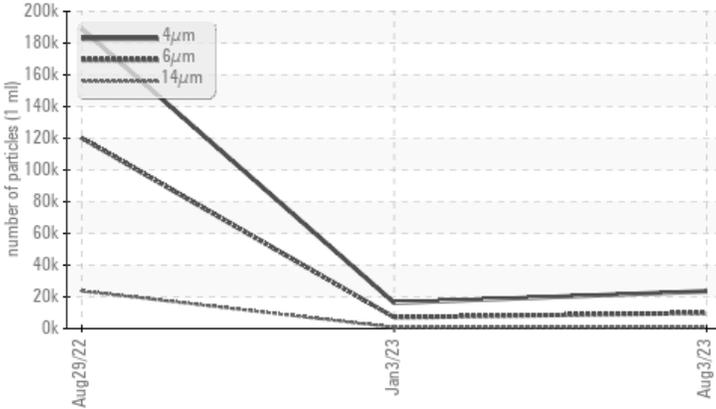
Sample Rating Trend



Machine Id  
**KAESER 8284829 (S/N 1760)**  
 Component  
**Compressor**  
 Fluid  
**KAESER SIGMA (OEM) S-460 (--- QTS)**

## 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			ABNORMAL	ABNORMAL	ABNORMAL
Particles >6µm	ASTM D7647	>1300	▲ 9866	▲ 7036	▲ 120113
Particles >14µm	ASTM D7647	>80	▲ 893	▲ 764	▲ 23702
Particles >21µm	ASTM D7647	>20	▲ 199	▲ 241	▲ 3463
Oil Cleanliness	ISO 4406 (c)	>--/17/13	▲ 22/20/17	▲ 21/20/17	▲ 25/24/22

Customer Id: REAREAPA  
 Sample No.: KC108921  
 Lab Number: 05922194  
 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

*There are no recommended actions for this sample.*

## HISTORICAL DIAGNOSIS

### 03 Jan 2023 Diag: Doug Bogart

ISO



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. 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



### 29 Aug 2022 Diag: Don Baldrige

ISO



We recommend you service the filters on this component. 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 8284829 (S/N 1760)**

Component  
**Compressor**

Fluid  
**KAESER SIGMA (OEM) S-460 (--- QTS)**

**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 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>KC108921</b>	KC104866	KC96017
Sample Date	Client Info		<b>03 Aug 2023</b>	03 Jan 2023	29 Aug 2022
Machine Age	hrs	Client Info	<b>5122</b>	3167	1975
Oil Age	hrs	Client Info	<b>1955</b>	3167	1975
Oil Changed	Client Info		<b>Not Chngd</b>	Changed	Not Chngd
Sample Status			<b>ABNORMAL</b>	ABNORMAL	ABNORMAL

**WEAR METALS**

	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m >50	<b>0</b>	<1	<1
Chromium	ppm	ASTM D5185m >10	<b>0</b>	0	0
Nickel	ppm	ASTM D5185m >3	<b>0</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>	<1	<1
Lead	ppm	ASTM D5185m >10	<b>0</b>	0	0
Copper	ppm	ASTM D5185m >50	<b>3</b>	7	3
Tin	ppm	ASTM D5185m >10	<b>0</b>	0	0
Vanadium	ppm	ASTM D5185m	<b>&lt;1</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 90	<b>24</b>	22	27
Molybdenum	ppm	ASTM D5185m	<b>0</b>	0	0
Manganese	ppm	ASTM D5185m	<b>&lt;1</b>	<1	0
Magnesium	ppm	ASTM D5185m 90	<b>68</b>	48	57
Calcium	ppm	ASTM D5185m 2	<b>0</b>	3	3
Phosphorus	ppm	ASTM D5185m	<b>1</b>	6	2
Zinc	ppm	ASTM D5185m	<b>0</b>	11	6

**CONTAMINANTS**

	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m >25	<b>1</b>	<1	<1
Sodium	ppm	ASTM D5185m	<b>19</b>	15	14
Potassium	ppm	ASTM D5185m >20	<b>5</b>	14	14
Water	%	ASTM D6304 >0.05	<b>0.022</b>	0.013	0.021
ppm Water	ppm	ASTM D6304 >500	<b>226.3</b>	135.8	213.3

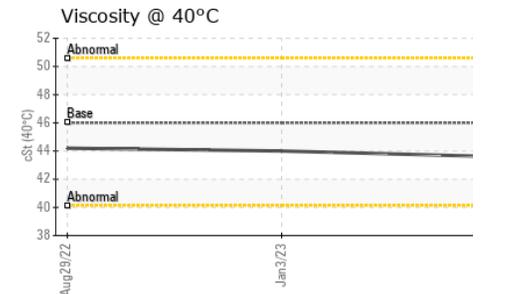
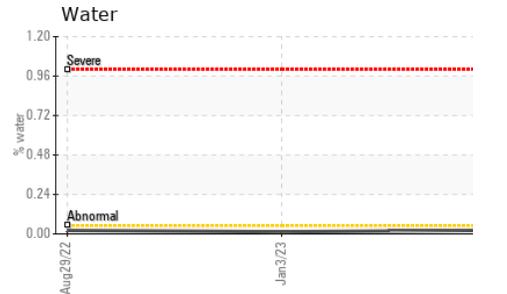
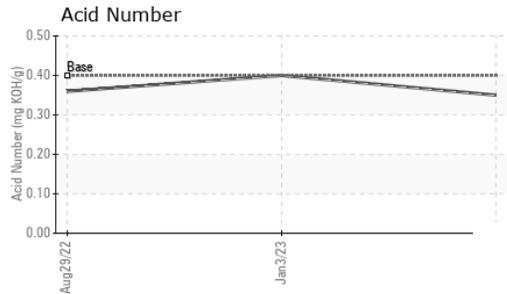
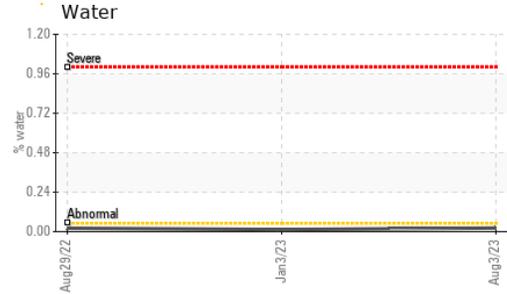
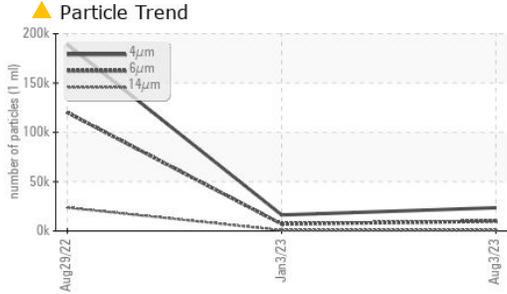
**FLUID CLEANLINESS**

	method	limit/base	current	history1	history2
Particles >4µm	ASTM D7647		<b>23526</b>	16231	189152
Particles >6µm	ASTM D7647 >1300		▲ <b>9866</b>	▲ 7036	▲ 120113
Particles >14µm	ASTM D7647 >80		▲ <b>893</b>	▲ 764	▲ 23702
Particles >21µm	ASTM D7647 >20		▲ <b>199</b>	▲ 241	▲ 3463
Particles >38µm	ASTM D7647 >4		<b>4</b>	▲ 17	▲ 51
Particles >71µm	ASTM D7647 >3		<b>0</b>	1	0
Oil Cleanliness	ISO 4406 (c)	>--/17/13	▲ <b>22/20/17</b>	▲ 21/20/17	▲ 25/24/22

**FLUID DEGRADATION**

	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045 0.4	<b>0.35</b>	0.40	0.36

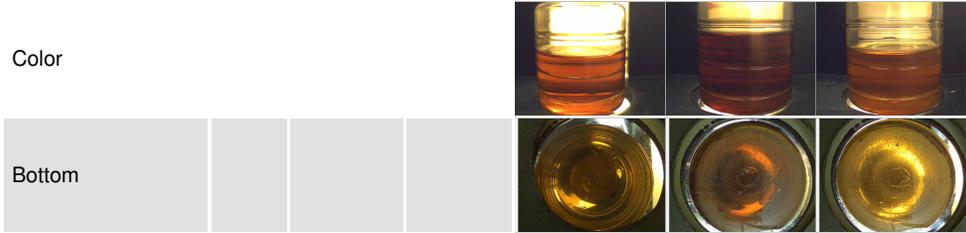
# OIL ANALYSIS REPORT



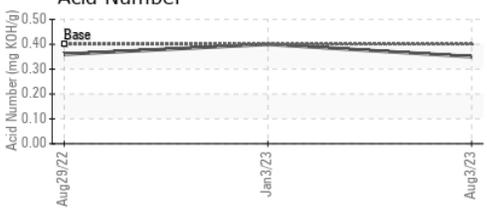
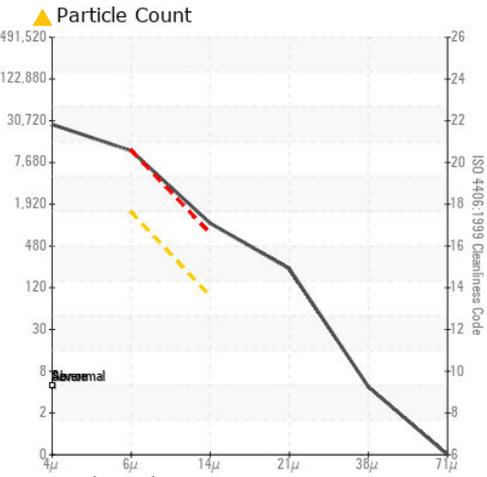
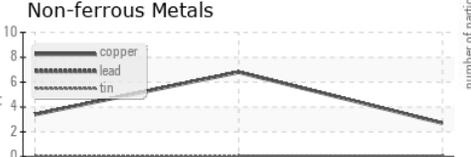
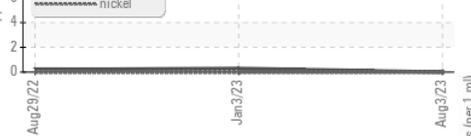
VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	LIGHT
Yellow Metal	scalar	*Visual	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	LIGHT	LIGHT
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE
Appearance	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 46	43.6	44.0	44.2

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



**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : KC108921 **Received** : 11 Aug 2023  
**Lab Number** : 05922194 **Diagnosed** : 14 Aug 2023  
**Unique Number** : 10602141 **Diagnostician** : Jonathan Hester  
**Test Package** : IND 2

**READING COLLISION**  
 935 GREGG AVE  
 READING, PA  
 US 19607  
 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: