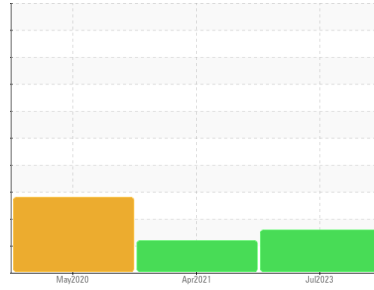




# PROBLEM SUMMARY

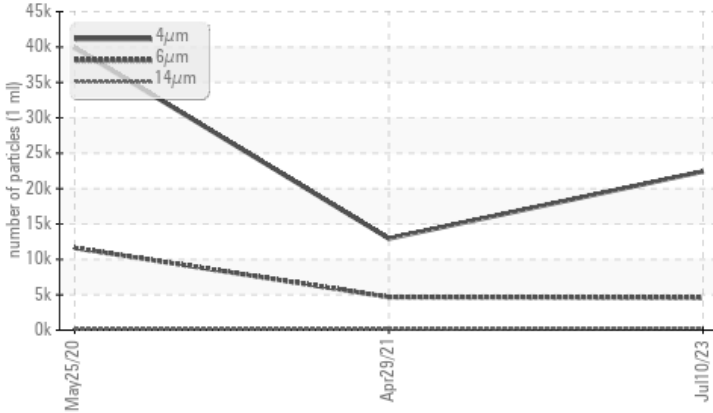
Sample Rating Trend



Machine Id  
**KAESER SK 15 6584592 (S/N 1229)**  
 Component  
**Compressor**  
 Fluid  
**KAESER SIGMA (OEM) M-460 (--- GAL)**

## 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	ASTM D7647	Limit	ABNORMAL	ABNORMAL	SEVERE
Particles >6µm	ASTM D7647	>1300	▲ 4576	▲ 4666	● 11611
Particles >14µm	ASTM D7647	>80	▲ 287	▲ 142	▲ 162
Particles >21µm	ASTM D7647	>20	▲ 74	▲ 22	▲ 32
Oil Cleanliness	ISO 4406 (c)	>--/17/13	▲ 22/19/15	▲ 19/14	● 21/15

Customer Id: BROBOL  
 Sample No.: KCPA003259  
 Lab Number: 05904942  
 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

*There are no recommended actions for this sample.*

## HISTORICAL DIAGNOSIS

### 29 Apr 2021 Diag: Don Baldrige

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



### 25 May 2020 Diag: Angela Borella

ISO



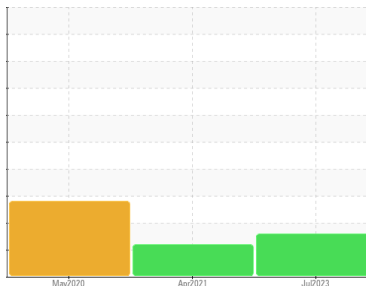
Oil and filter change at the time of sampling has been noted. Resample at the next service interval to monitor. All component wear rates are normal. There is a high amount of particulates present in the oil. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

view report



# OIL ANALYSIS REPORT

Sample Rating Trend



ISO



Machine Id  
**KAESER SK 15 6584592 (S/N 1229)**

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

## 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>KCPA003259</b>	KCP35943	KCP26518
Sample Date	Client Info	<b>10 Jul 2023</b>	29 Apr 2021	25 May 2020
Machine Age	hrs	<b>7596</b>	3980	2240
Oil Age	hrs	<b>0</b>	1740	2239
Oil Changed	Client Info	<b>N/A</b>	Changed	Changed
Sample Status		<b>ABNORMAL</b>	ABNORMAL	SEVERE

## WEAR METALS

method	limit/base	current	history1	history2	
Iron	ppm	ASTM D5185m >50	<b>2</b>	<1	2
Chromium	ppm	ASTM D5185m >10	<b>0</b>	0	0
Nickel	ppm	ASTM D5185m >3	<b>&lt;1</b>	0	<1
Titanium	ppm	ASTM D5185m >3	<b>0</b>	0	0
Silver	ppm	ASTM D5185m >2	<b>0</b>	<1	0
Aluminum	ppm	ASTM D5185m >10	<b>0</b>	0	<1
Lead	ppm	ASTM D5185m >10	<b>0</b>	0	0
Copper	ppm	ASTM D5185m >50	<b>9</b>	8	5
Tin	ppm	ASTM D5185m >10	<b>0</b>	<1	0
Antimony	ppm	ASTM D5185m	<b>---</b>	0	0
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>	<1	<1
Barium	ppm	ASTM D5185m 90	<b>0</b>	14	13
Molybdenum	ppm	ASTM D5185m 0	<b>0</b>	0	0
Manganese	ppm	ASTM D5185m	<b>1</b>	<1	<1
Magnesium	ppm	ASTM D5185m 100	<b>37</b>	71	76
Calcium	ppm	ASTM D5185m 0	<b>0</b>	3	14
Phosphorus	ppm	ASTM D5185m 0	<b>0</b>	6	3
Zinc	ppm	ASTM D5185m 0	<b>14</b>	0	10
Sulfur	ppm	ASTM D5185m 23500	<b>21455</b>	19040	16770

## CONTAMINANTS

method	limit/base	current	history1	history2	
Silicon	ppm	ASTM D5185m >25	<b>2</b>	<1	<1
Sodium	ppm	ASTM D5185m	<b>10</b>	16	17
Potassium	ppm	ASTM D5185m >20	<b>&lt;1</b>	2	6
Water	%	ASTM D6304 >0.05	<b>0.019</b>	0.031	0.025
ppm Water	ppm	ASTM D6304 >500	<b>199.9</b>	315.8	252.4

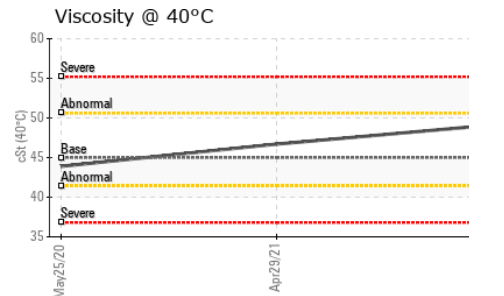
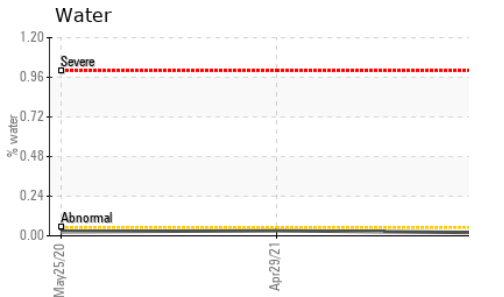
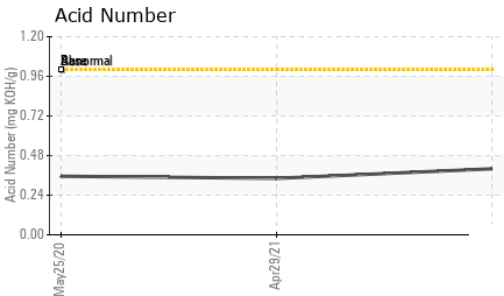
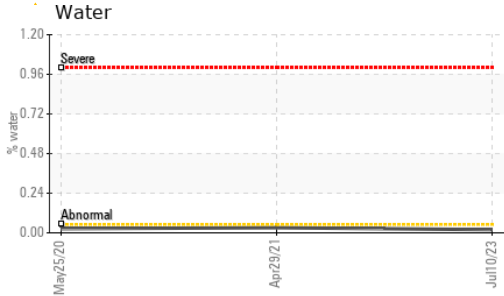
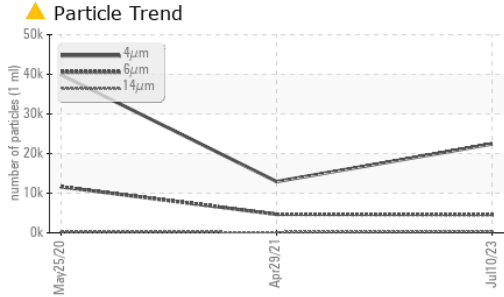
## FLUID CLEANLINESS

method	limit/base	current	history1	history2
Particles >4µm	ASTM D7647	<b>22417</b>	12939	39889
Particles >6µm	ASTM D7647 >1300	<b>▲ 4576</b>	▲ 4666	■ 11611
Particles >14µm	ASTM D7647 >80	<b>▲ 287</b>	▲ 142	▲ 162
Particles >21µm	ASTM D7647 >20	<b>▲ 74</b>	▲ 22	▲ 32
Particles >38µm	ASTM D7647 >4	<b>3</b>	0	5
Particles >71µm	ASTM D7647 >3	<b>0</b>	0	2
Oil Cleanliness	ISO 4406 (c) >--/17/13	<b>▲ 22/19/15</b>	▲ 19/14	■ 21/15

## FLUID DEGRADATION

method	limit/base	current	history1	history2	
Acid Number (AN)	mg KOH/g	ASTM D8045 1.0	<b>0.40</b>	0.342	0.355

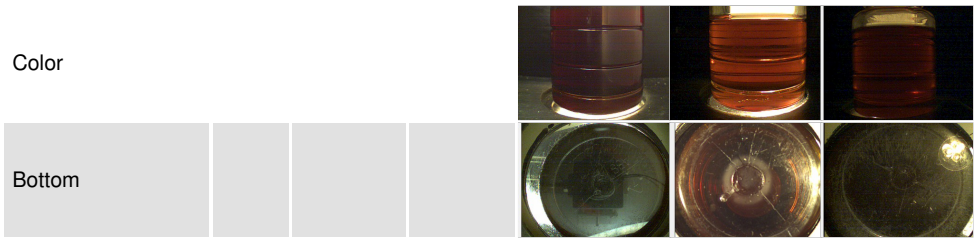
# OIL ANALYSIS REPORT



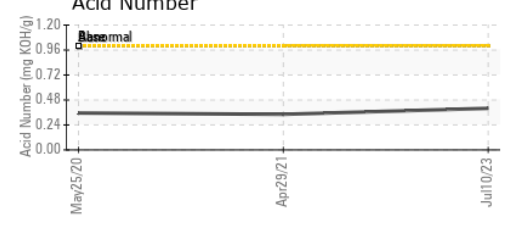
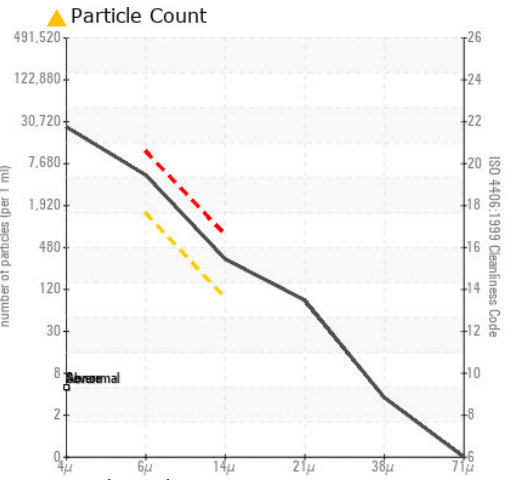
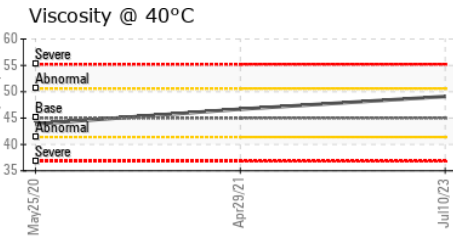
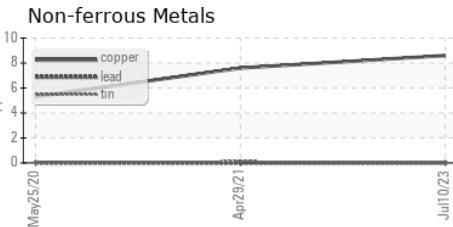
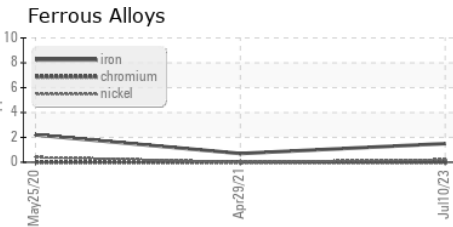
VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	LIGHT
Yellow Metal	scalar	*Visual	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE
Appearance	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	49.1	46.7

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



**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : KCPA003259 **Received** : 21 Jul 2023  
**Lab Number** : 05904942 **Diagnosed** : 25 Jul 2023  
**Unique Number** : 10566298 **Diagnostician** : Angela Borella  
**Test Package** : IND 2 ( Additional Tests: KF, PrtCount )

**BROOMFIELD LABS**  
 164 STILL RIVER RD  
 BOLTON, MA  
 US 01740  
 Contact: DAVID  
 david@broomfieldusa.com

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)