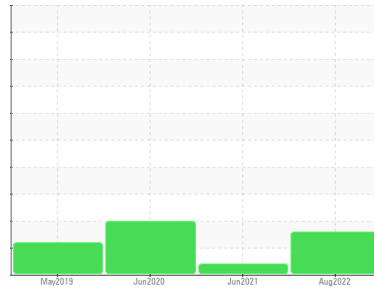


# PROBLEM SUMMARY

Sample Rating Trend



ISO



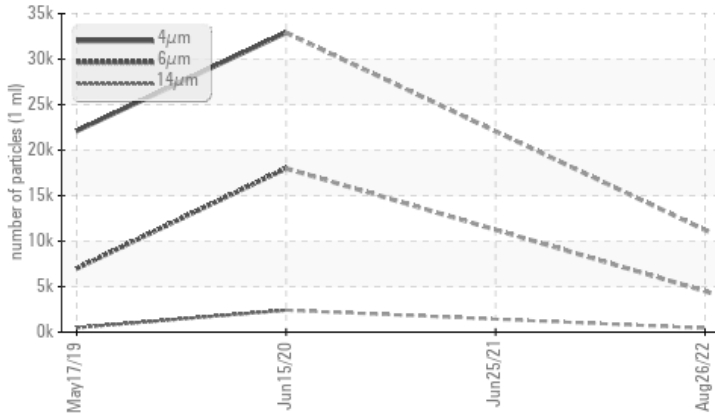
Machine Id  
**KAESER AS 30 6307126 (S/N 1098)**

Component  
**Compressor**

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

## COMPONENT CONDITION SUMMARY

### ▲ Particle Trend



## RECOMMENDATION

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.

## PROBLEMATIC TEST RESULTS

| Sample Status   | ASTM D7647   | Limit     | Result     | ABNORMAL | ABNORMAL | ABNORMAL |
|-----------------|--------------|-----------|------------|----------|----------|----------|
| Particles >6µm  | ASTM D7647   | >1300     | ▲ 4500     | ---      | ---      | ▲ 17995  |
| Particles >14µm | ASTM D7647   | >80       | ▲ 445      | ---      | ---      | ▲ 2409   |
| Particles >21µm | ASTM D7647   | >20       | ▲ 61       | ---      | ---      | ▲ 482    |
| Oil Cleanliness | ISO 4406 (c) | >--/17/13 | ▲ 21/19/16 | ---      | ---      | ▲ 21/18  |

Customer Id: REVSPR  
Sample No.: KC102149  
Lab Number: 05636533  
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

### 25 Jun 2021 Diag: Doug Bogart

#### VIS DEBRIS



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. 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](#)



### 15 Jun 2020 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](#)



### 17 May 2019 Diag: Angela Borella

#### ISO



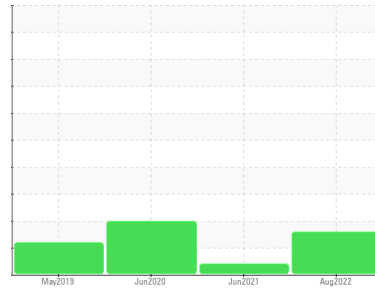
Oil and filter change at the time of sampling has been noted. Resample at the next service interval to monitor. All component wear rates are normal. There is a high amount of particulates present in the oil. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

[view report](#)



Machine Id  
**KAESER AS 30 6307126 (S/N 1098)**

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



## DIAGNOSIS

### ▲ Recommendation

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.

### 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            | history 1   | history 2   |
|---------------|--------|------------|--------------------|-------------|-------------|
| Sample Number |        |            | <b>KC102149</b>    | KC92769     | KC78578     |
| Sample Date   |        |            | <b>26 Aug 2022</b> | 25 Jun 2021 | 15 Jun 2020 |
| Machine Age   | hrs    |            | <b>8096</b>        | 5510        | 3667        |
| Oil Age       | hrs    |            | <b>2586</b>        | 1843        | 1927        |
| Oil Changed   |        |            | <b>Changed</b>     | Changed     | Changed     |
| Sample Status |        |            | <b>ABNORMAL</b>    | ABNORMAL    | ABNORMAL    |

## WEAR METALS

|          | method | limit/base      | current      | history 1 | history 2 |
|----------|--------|-----------------|--------------|-----------|-----------|
| Iron     | ppm    | ASTM D5185m >50 | <b>0</b>     | 0         | <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> | 0         | <1        |
| Lead     | ppm    | ASTM D5185m >10 | <b>0</b>     | <1        | 0         |
| Copper   | ppm    | ASTM D5185m >50 | <b>1</b>     | 1         | 2         |
| 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      | history 1 | history 2 |
|------------|--------|----------------|--------------|-----------|-----------|
| Boron      | ppm    | ASTM D5185m    | <b>0</b>     | <1        | <1        |
| Barium     | ppm    | ASTM D5185m 90 | <b>12</b>    | 27        | 12        |
| Molybdenum | ppm    | ASTM D5185m    | <b>0</b>     | 0         | 2         |
| Manganese  | ppm    | ASTM D5185m    | <b>0</b>     | 0         | 0         |
| Magnesium  | ppm    | ASTM D5185m 90 | <b>77</b>    | 78        | 80        |
| Calcium    | ppm    | ASTM D5185m 2  | <b>2</b>     | <1        | 2         |
| Phosphorus | ppm    | ASTM D5185m    | <b>&lt;1</b> | 9         | 0         |
| Zinc       | ppm    | ASTM D5185m    | <b>2</b>     | 0         | 4         |

## CONTAMINANTS

|           | method | limit/base       | current      | history 1 | history 2 |
|-----------|--------|------------------|--------------|-----------|-----------|
| Silicon   | ppm    | ASTM D5185m >25  | <b>0</b>     | 0         | <1        |
| Sodium    | ppm    | ASTM D5185m      | <b>23</b>    | 21        | 23        |
| Potassium | ppm    | ASTM D5185m >20  | <b>&lt;1</b> | 3         | 2         |
| Water     | %      | ASTM D6304 >0.05 | <b>0.025</b> | 0.032     | 0.040     |
| ppm Water | ppm    | ASTM D6304 >500  | <b>257.7</b> | 320.1     | 402.5     |

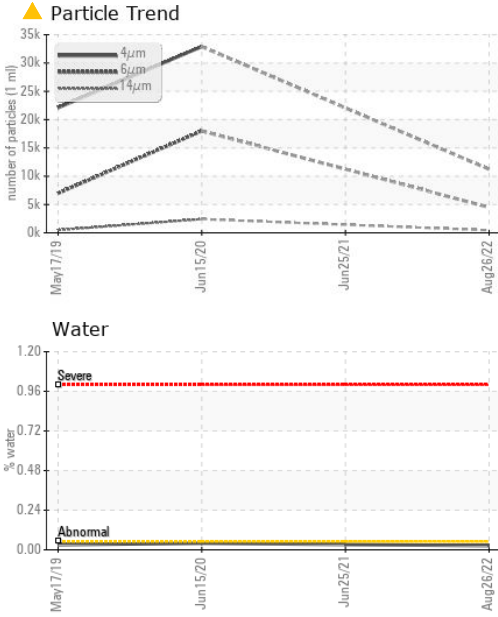
## FLUID CLEANLINESS

|                 | method                 | limit/base | current           | history 1 | history 2 |
|-----------------|------------------------|------------|-------------------|-----------|-----------|
| Particles >4µm  | ASTM D7647             |            | <b>11227</b>      | ---       | 32908     |
| Particles >6µm  | ASTM D7647 >1300       |            | <b>▲ 4500</b>     | ---       | ▲ 17995   |
| Particles >14µm | ASTM D7647 >80         |            | <b>▲ 445</b>      | ---       | ▲ 2409    |
| Particles >21µm | ASTM D7647 >20         |            | <b>▲ 61</b>       | ---       | ▲ 482     |
| Particles >38µm | ASTM D7647 >4          |            | <b>1</b>          | ---       | ▲ 28      |
| Particles >71µm | ASTM D7647 >3          |            | <b>0</b>          | ---       | ▲ 14      |
| Oil Cleanliness | ISO 4406 (c) >--/17/13 |            | <b>▲ 21/19/16</b> | ---       | ▲ 21/18   |

## FLUID DEGRADATION

|                  | method   | limit/base     | current     | history 1 | history 2 |
|------------------|----------|----------------|-------------|-----------|-----------|
| Acid Number (AN) | mg KOH/g | ASTM D8045 0.4 | <b>0.35</b> | 0.335     | 0.296     |

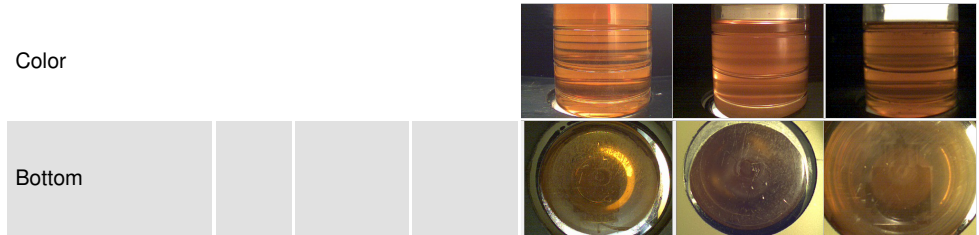
# OIL ANALYSIS REPORT



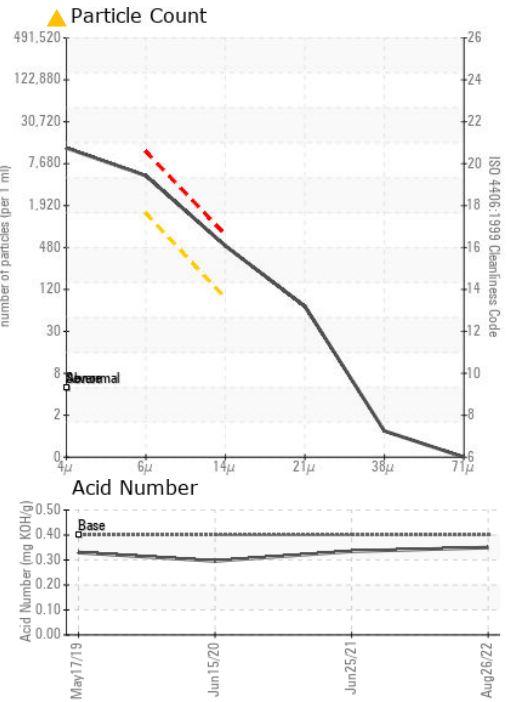
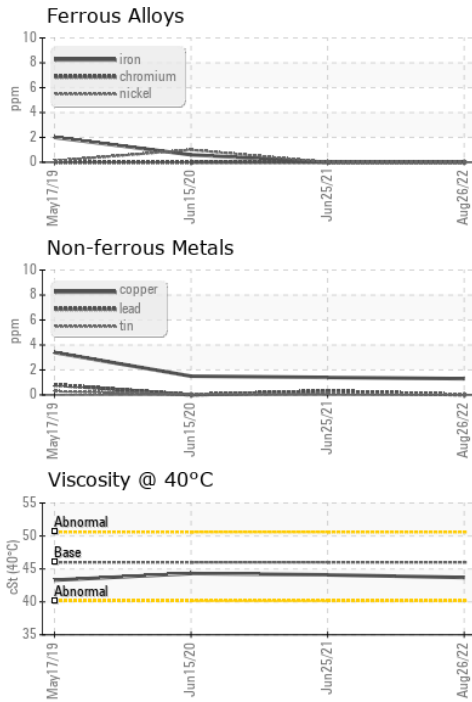
| PARAMETER        | method | limit/base | current | history 1 | history 2 |
|------------------|--------|------------|---------|-----------|-----------|
| White Metal      | scalar | *Visual    | NONE    | NONE      | NONE      |
| Yellow Metal     | scalar | *Visual    | NONE    | NONE      | NONE      |
| 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       | NEG       |

| PARAMETER   | method | limit/base | current | history 1 | history 2 |
|-------------|--------|------------|---------|-----------|-----------|
| Visc @ 40°C | cSt    | ASTM D445  | 46      | 43.7      | 44.1      |

| PARAMETER | method | limit/base | current | history 1 | history 2 |
|-----------|--------|------------|---------|-----------|-----------|
|-----------|--------|------------|---------|-----------|-----------|



## GRAPHS



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : KC102149  
**Lab Number** : 05636533  
**Unique Number** : 10126063  
**Test Package** : IND 2

**Received** : 08 Sep 2022  
**Diagnosed** : 09 Sep 2022  
**Diagnostician** : Don Baldrige

**REVIVAL SASH**  
 78 DIAMOND RD  
 SPRINGFIELD, NJ  
 USA 07081  
 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: