

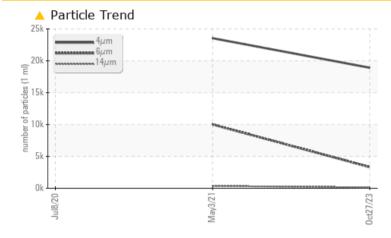
# **PROBLEM SUMMARY**

# Sample Rating Trend ISO

# KAESER 6815294

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

# COMPONENT CONDITION SUMMARY



# 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 ABNORMAL ABNORMAL ABNORMAL Particles >6µm ASTM D7647 >1300 3326 ▲ 10018 Particles >14µm ASTM D7647 >80 **131** ▲ 350 Particles >21µm ASTM D7647 >20 28 67 **Oil Cleanliness** ISO 4406 (c) >--/17/13 A 21/19/14 21/16

Customer Id: CROFAR Sample No.: KC111725 Lab Number: 05998440 Test Package: IND 2



To manage this report scan the QR code

To discuss the diagnosis or test data: Don Baldridge +1 don.b505@comcast.net

To change component or sample information: Customer Service +1 1-800-237-1369 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



# 03 May 2021 Diag: Don Baldridge

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 acceptable for the time in service.



# 08 Jul 2020 Diag: Don Baldridge



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 amount of visible silt present in the sample. There is a light concentration of water present in the oil. Free water present. The AN level is acceptable for this fluid.





# **OIL ANALYSIS REPORT**

# Sample Rating Trend ISO

Machine Id **KAESER 6815294** 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

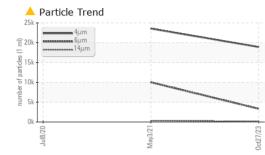
The AN level is acceptable for this fluid. The condition of the oil is acceptable for the time in service.

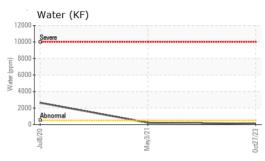
| SAMPLE INFORM    | <b>ATION</b> | method       | limit/base | current           | history1      | history2    |
|------------------|--------------|--------------|------------|-------------------|---------------|-------------|
| Sample Number    |              | Client Info  |            | KC111725          | KC93266       | KC83106     |
| Sample Date      |              | Client Info  |            | 27 Oct 2023       | 03 May 2021   | 08 Jul 2020 |
| Machine Age      | hrs          | Client Info  |            | 16422             | 7678          | 3797        |
| Oil Age          | hrs          | Client Info  |            | 3200              | 4000          | 3797        |
| Oil Changed      |              | Client Info  |            | Changed           | Changed       | Changed     |
| Sample Status    |              |              |            | ABNORMAL          | ABNORMAL      | ABNORMAL    |
| WEAR METALS      |              | method       | limit/base | current           | history1      | history2    |
| Iron             | ppm          | ASTM D5185m  | >50        | <1                | <1            | 2           |
| Chromium         | ppm          | ASTM D5185m  | >10        | 0                 | 0             | 0           |
| Nickel           | ppm          | ASTM D5185m  | >3         | 0                 | 0             | <1          |
| Titanium         | ppm          | ASTM D5185m  | >3         | 0                 | 0             | 0           |
| Silver           | ppm          | ASTM D5185m  | >2         | 0                 | 0             | 0           |
| Aluminum         | ppm          | ASTM D5185m  | >10        | 0                 | 0             | 0           |
| Lead             | ppm          | ASTM D5185m  | >10        | 0                 | <1            | 0           |
| Copper           | ppm          | ASTM D5185m  | >50        | 13                | 10            | 19          |
| Tin              | ppm          | ASTM D5185m  | >10        | 0                 | 0             | 0           |
| Antimony         | ppm          | ASTM D5185m  |            |                   | 0             | 0           |
| Vanadium         | ppm          | ASTM D5185m  |            | 0                 | 0             | 0           |
| Cadmium          | ppm          | ASTM D5185m  |            | 0                 | 0             | 0           |
| ADDITIVES        |              | method       | limit/base | current           | history1      | history2    |
| Boron            | ppm          | ASTM D5185m  |            | 0                 | <1            | 2           |
| Barium           | ppm          | ASTM D5185m  | 90         | 0                 | 2             | 0           |
| Molybdenum       | ppm          | ASTM D5185m  |            | 0                 | 0             | 2           |
| Manganese        | ppm          | ASTM D5185m  |            | 0                 | <1            | <1          |
| Magnesium        | ppm          | ASTM D5185m  | 90         | 0                 | 45            | 32          |
| Calcium          | ppm          | ASTM D5185m  | 2          | 0                 | 0             | 2           |
| Phosphorus       | ppm          | ASTM D5185m  |            | 0                 | 0             | 2           |
| Zinc             | ppm          | ASTM D5185m  |            | 6                 | 0             | 11          |
| CONTAMINANTS     | ;            | method       | limit/base | current           | history1      | history2    |
| Silicon          | ppm          | ASTM D5185m  | >25        | 2                 | 0             | 2           |
| Sodium           | ppm          | ASTM D5185m  |            | 2                 | 21            | 14          |
| Potassium        | ppm          | ASTM D5185m  | >20        | 0                 | 2             | 0           |
| Water            | %            | ASTM D6304   | >0.05      | 0.011             | 0.021         | ▲ 0.264     |
| ppm Water        | ppm          | ASTM D6304   | >500       | 113.5             | 218.6         | ▲ 2640      |
| FLUID CLEANLIN   | IESS         | method       | limit/base | current           | history1      | history2    |
| Particles >4µm   |              | ASTM D7647   |            | 18913             | 23550         |             |
| Particles >6µm   |              | ASTM D7647   | >1300      | <u> </u>          | <u> </u>      |             |
| Particles >14µm  |              | ASTM D7647   | >80        | <u> </u>          | <b>A</b> 350  |             |
| Particles >21µm  |              | ASTM D7647   | >20        | <u> </u>          | <b>▲</b> 67   |             |
| Particles >38µm  |              | ASTM D7647   | >4         | 1                 | 3             |             |
| Particles >71µm  |              | ASTM D7647   | >3         | 0                 | 0             |             |
| Oil Cleanliness  |              | ISO 4406 (c) | >/17/13    | <b>A</b> 21/19/14 | <b>2</b> 1/16 |             |
| FLUID DEGRADA    | TION         | method       | limit/base | current           | history1      | history2    |
| Acid Number (AN) | mg KOH/g     | ASTM D8045   | 0.4        | 0.20              | 0.255         | 0.243       |

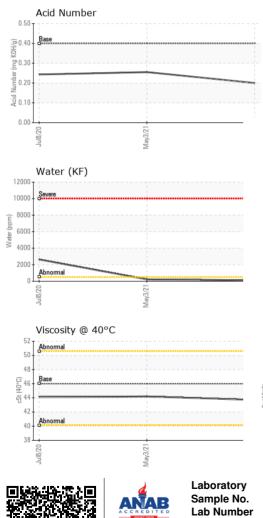
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# RS

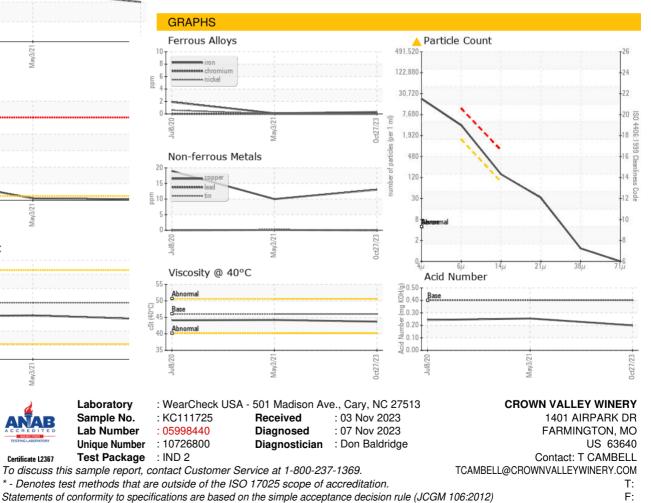






# **OIL ANALYSIS REPORT**

| VISUAL           |        | method    | limit/base | current | history1 | history2    |
|------------------|--------|-----------|------------|---------|----------|-------------|
| White Metal      | scalar | *Visual   | NONE       | NONE    | NONE     | NONE        |
| Yellow Metal     | scalar | *Visual   | NONE       | NONE    | NONE     | NONE        |
| Precipitate      | scalar | *Visual   | NONE       | NONE    | NONE     | NONE        |
| Silt             | scalar | *Visual   | NONE       | NONE    | NONE     | A MODER     |
| Debris           | scalar | *Visual   | NONE       | NONE    | NONE     | NONE        |
| Sand/Dirt        | scalar | *Visual   | NONE       | NONE    | NONE     | NONE        |
| Appearance       | scalar | *Visual   | NORML      | NORML   | NORML    | NORML       |
| Odor             | scalar | *Visual   | NORML      | NORML   | NORML    | NORML       |
| Emulsified Water | scalar | *Visual   | >0.05      | NEG     | NEG      | ▲ 0.2%      |
| Free Water       | scalar | *Visual   |            | NEG     | NEG      | <b>1</b> .0 |
| FLUID PROPERT    | IES    | method    | limit/base | current | history1 | history2    |
| Visc @ 40°C      | cSt    | ASTM D445 | 46         | 43.7    | 44.2     | 44.1        |
| SAMPLE IMAGES    |        | method    | limit/base | current | history1 | history2    |
| Color            |        |           |            |         |          |             |
| Bottom           |        |           |            |         | -63      |             |



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