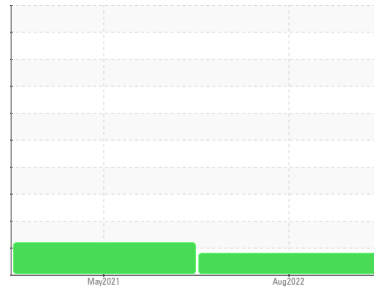


PROBLEM SUMMARY

Sample Rating Trend



ISO



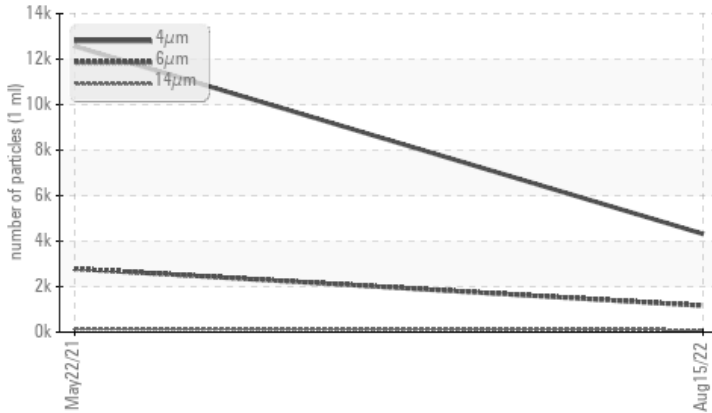
Machine Id
KAESER BSD 50T 2687375 (S/N 1021)

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 | | ATTENTION | ABNORMAL | --- |
|-----------------|------------------------|------------|----------|-----|
| Particles >14µm | ASTM D7647 >80 | ▲ 97 | ▲ 151 | --- |
| Oil Cleanliness | ISO 4406 (c) >--/17/13 | ▲ 19/17/14 | ▲ 19/14 | --- |

Customer Id: AEQPAR
Sample No.: KCP50503
Lab Number: 05633638
Test Package: IND 2



To manage this report scan the QR code

To discuss the diagnosis or test data:
Doug Bogart +1 (800)237-1369 x4016
dougb@wearcheckusa.com

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

22 May 2021 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.

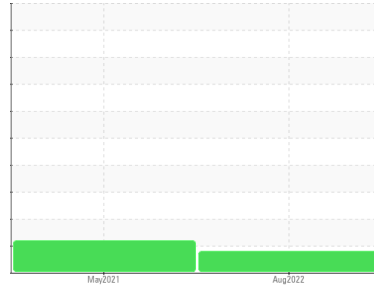
view report



Machine Id
KAESER BSD 50T 2687375 (S/N 1021)

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 moderate 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 | | | KCP50503 | KCP36638 | --- |
| Sample Date | | | 15 Aug 2022 | 22 May 2021 | --- |
| Machine Age | hrs | | 101058 | 100548 | --- |
| Oil Age | hrs | | 510 | 974 | --- |
| Oil Changed | | | Changed | Changed | --- |
| Sample Status | | | ATTENTION | ABNORMAL | --- |

WEAR METALS

| | method | limit/base | current | history 1 | history 2 |
|----------|--------|-----------------|--------------|-----------|-----------|
| Iron | ppm | ASTM D5185m >50 | <1 | 1 | --- |
| Chromium | ppm | ASTM D5185m >10 | 0 | 0 | --- |
| Nickel | ppm | ASTM D5185m >3 | 0 | 0 | --- |
| Titanium | ppm | ASTM D5185m >3 | 0 | 0 | --- |
| Silver | ppm | ASTM D5185m >2 | 0 | <1 | --- |
| Aluminum | ppm | ASTM D5185m >10 | <1 | 0 | --- |
| Lead | ppm | ASTM D5185m >10 | <1 | 0 | --- |
| Copper | ppm | ASTM D5185m >50 | 2 | 3 | --- |
| Tin | ppm | ASTM D5185m >10 | <1 | 0 | --- |
| Antimony | ppm | ASTM D5185m | --- | 0 | --- |
| Vanadium | ppm | ASTM D5185m | 0 | 0 | --- |
| Cadmium | ppm | ASTM D5185m | 0 | 0 | --- |

ADDITIVES

| | method | limit/base | current | history 1 | history 2 |
|------------|--------|----------------|--------------|-----------|-----------|
| Boron | ppm | ASTM D5185m | 0 | 1 | --- |
| Barium | ppm | ASTM D5185m 90 | 2 | 0 | --- |
| Molybdenum | ppm | ASTM D5185m | 0 | 0 | --- |
| Manganese | ppm | ASTM D5185m | <1 | <1 | --- |
| Magnesium | ppm | ASTM D5185m 90 | 44 | 25 | --- |
| Calcium | ppm | ASTM D5185m 2 | 0 | 0 | --- |
| Phosphorus | ppm | ASTM D5185m | 3 | 7 | --- |
| Zinc | ppm | ASTM D5185m | 25 | 21 | --- |
| Sulfur | ppm | ASTM D5185m | 18390 | 15641 | --- |

CONTAMINANTS

| | method | limit/base | current | history 1 | history 2 |
|-----------|--------|------------------|--------------|-----------|-----------|
| Silicon | ppm | ASTM D5185m >25 | <1 | 0 | --- |
| Sodium | ppm | ASTM D5185m | 13 | 6 | --- |
| Potassium | ppm | ASTM D5185m >20 | 4 | 1 | --- |
| Water | % | ASTM D6304 >0.05 | 0.016 | 0.019 | --- |
| ppm Water | ppm | ASTM D6304 >500 | 166.0 | 191.0 | --- |

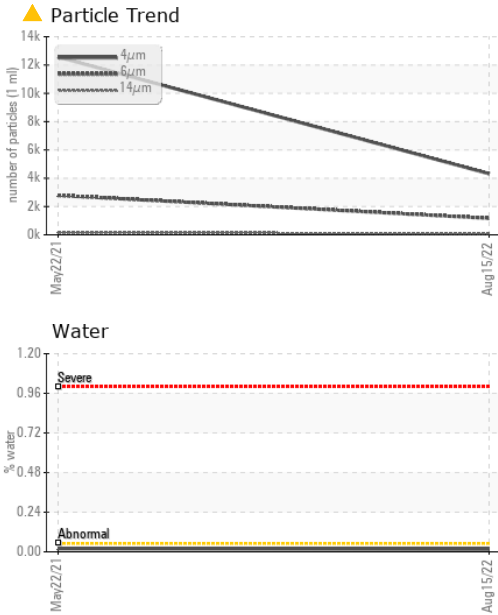
FLUID CLEANLINESS

| | method | limit/base | current | history 1 | history 2 |
|-----------------|------------------------|------------|-------------------|-----------|-----------|
| Particles >4µm | ASTM D7647 | | 4318 | 12569 | --- |
| Particles >6µm | ASTM D7647 >1300 | | 1164 | ▲ 2785 | --- |
| Particles >14µm | ASTM D7647 >80 | | ▲ 97 | ▲ 151 | --- |
| Particles >21µm | ASTM D7647 >20 | | 20 | ▲ 36 | --- |
| Particles >38µm | ASTM D7647 >4 | | 1 | 1 | --- |
| Particles >71µm | ASTM D7647 >3 | | 0 | 0 | --- |
| Oil Cleanliness | ISO 4406 (c) >--/17/13 | | ▲ 19/17/14 | ▲ 19/14 | --- |

FLUID DEGRADATION

| | method | limit/base | current | history 1 | history 2 |
|------------------|----------|----------------|-------------|-----------|-----------|
| Acid Number (AN) | mg KOH/g | ASTM D8045 0.4 | 0.37 | 0.367 | --- |

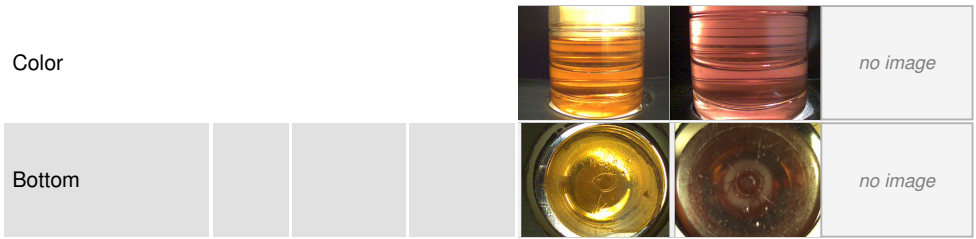
OIL ANALYSIS REPORT



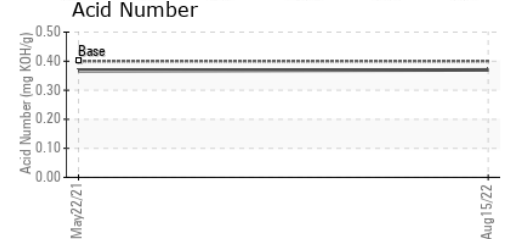
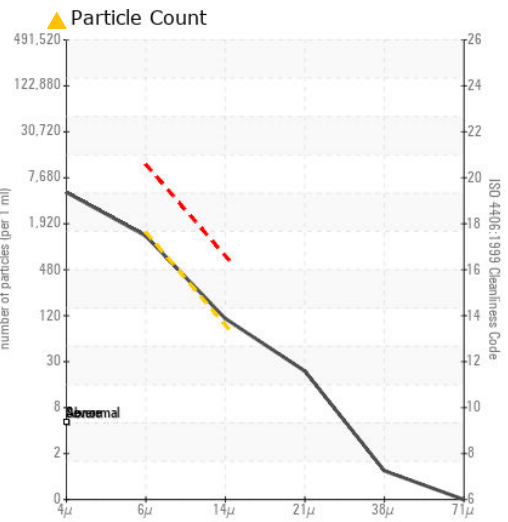
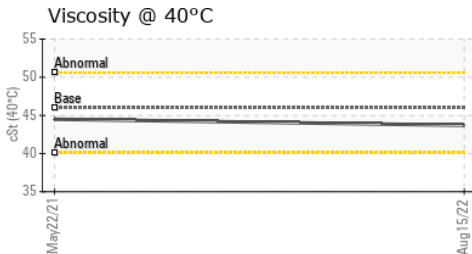
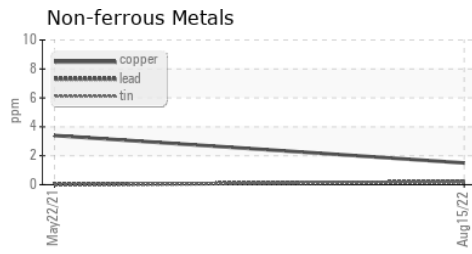
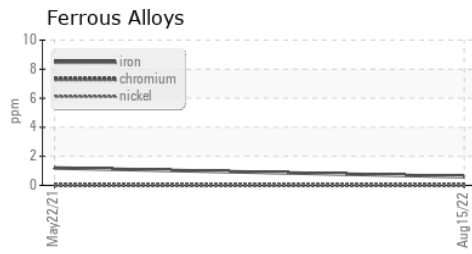
| VISUAL | method | limit/base | current | history 1 | history 2 |
|------------------|--------|------------|---------|-----------|-----------|
| White Metal | scalar | *Visual | NONE | NONE | --- |
| Yellow Metal | scalar | *Visual | NONE | NONE | --- |
| Precipitate | scalar | *Visual | NONE | NONE | --- |
| Silt | scalar | *Visual | NONE | NONE | --- |
| Debris | scalar | *Visual | NONE | NONE | --- |
| Sand/Dirt | scalar | *Visual | NONE | NONE | --- |
| Appearance | scalar | *Visual | NORML | NORML | --- |
| Odor | scalar | *Visual | NORML | NORML | --- |
| Emulsified Water | scalar | *Visual | >0.05 | NEG | --- |
| Free Water | scalar | *Visual | | NEG | --- |

| FLUID PROPERTIES | method | limit/base | current | history 1 | history 2 |
|------------------|--------|------------|---------|-----------|-----------|
| Visc @ 40°C | cSt | ASTM D445 | 46 | 43.7 | 44.5 |

| SAMPLE IMAGES | method | limit/base | current | history 1 | history 2 |
|---------------|--------|------------|---------|-----------|-----------|
|---------------|--------|------------|---------|-----------|-----------|



GRAPHS



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : KCP50503 **Received** : 02 Sep 2022
Lab Number : 05633638 **Diagnosed** : 06 Sep 2022
Unique Number : 10118159 **Diagnostician** : Doug Bogart
Test Package : IND 2 (Additional Tests: KF, PrtCount)

AEQUS AERO MACHINE
 2220 W PARK ST
 PARIS, TX
 USA 75460
 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)