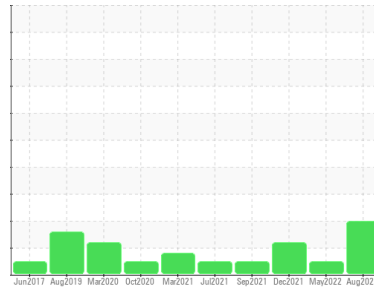


Machine Id
KAESER CSD 75T 5305454 (S/N 1053)

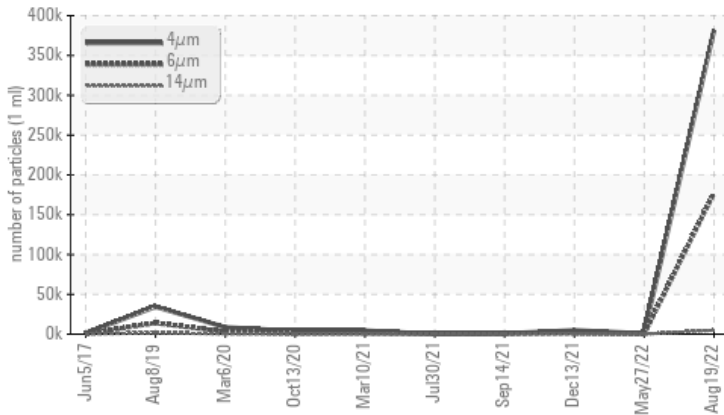
Component
Compressor

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



COMPONENT CONDITION SUMMARY

▲ Particle Trend



RECOMMENDATION

We recommend you service the filters on this component. Resample at the next service interval to monitor.

PROBLEMATIC TEST RESULTS

| Sample Status | | | ABNORMAL | NORMAL | ATTENTION |
|-----------------|--------------|--------|----------|--------|-----------|
| Particles >6µm | ASTM D7647 | >1300 | ▲ 177395 | 221 | ▲ 1352 |
| Particles >14µm | ASTM D7647 | >80 | ▲ 4904 | 10 | ▲ 105 |
| Particles >21µm | ASTM D7647 | >20 | ▲ 453 | 4 | ▲ 23 |
| Particles >38µm | ASTM D7647 | >4 | ▲ 14 | 0 | 0 |
| Oil Cleanliness | ISO 4406 (c) | >17/13 | ▲ 25/19 | 15/10 | ▲ 18/14 |

Customer Id: STAMCK
Sample No.: KC78107
Lab Number: 05648342
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 Filter | --- | --- | ? | We recommend you service the filters on this component. |

HISTORICAL DIAGNOSIS

27 May 2022 Diag: Doug Bogart

NORMAL



Resample at the next service interval to monitor. All component wear rates are normal. There is no indication of any contamination in the oil. The amount and size of particulates present in the system are acceptable. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

view report



13 Dec 2021 Diag: Doug Bogart

ISO



No corrective action is recommended at this time. Resample at the next service interval to monitor. All component wear rates are normal. There is a moderate 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



14 Sep 2021 Diag: Don Baldrige

NORMAL



Resample at the next service interval to monitor. All component wear rates are normal. No abnormal wear or visible metal detected. The amount and size of particulates present in the system are acceptable. There is no indication of any contamination in the oil. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

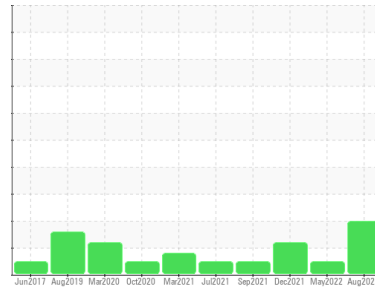
view report



Machine Id
KAESER CSD 75T 5305454 (S/N 1053)

Component
Compressor

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



DIAGNOSIS

▲ Recommendation

We recommend you service the filters on this component. 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 | | | KC78107 | KCP45695 | KCP37821 |
| Sample Date | | | 19 Aug 2022 | 27 May 2022 | 13 Dec 2021 |
| Machine Age | hrs | | 0 | 38624 | 35978 |
| Oil Age | hrs | | 0 | 4728 | 2082 |
| Oil Changed | | | N/A | Changed | Not Changd |
| Sample Status | | | ABNORMAL | NORMAL | ATTENTION |

WEAR METALS

| | method | limit/base | current | history 1 | history 2 |
|----------|--------|-----------------|--------------|-----------|-----------|
| Iron | ppm | ASTM D5185m >50 | 5 | 0 | <1 |
| Chromium | ppm | ASTM D5185m >10 | 0 | 0 | 0 |
| Nickel | ppm | ASTM D5185m >3 | 0 | 0 | 0 |
| Titanium | ppm | ASTM D5185m >3 | 0 | 0 | 0 |
| Silver | ppm | ASTM D5185m >2 | 0 | 0 | 0 |
| Aluminum | ppm | ASTM D5185m >10 | <1 | 0 | <1 |
| Lead | ppm | ASTM D5185m >10 | 0 | 0 | <1 |
| Copper | ppm | ASTM D5185m >50 | 8 | 11 | 9 |
| Tin | ppm | ASTM D5185m >10 | 0 | 0 | 0 |
| Antimony | ppm | ASTM D5185m | --- | --- | 0 |
| Vanadium | ppm | ASTM D5185m | 0 | 0 | 0 |
| Cadmium | ppm | ASTM D5185m | 0 | 0 | 0 |

ADDITIVES

| | method | limit/base | current | history 1 | history 2 |
|------------|--------|----------------|--------------|-----------|-----------|
| Boron | ppm | ASTM D5185m | 0 | 0 | <1 |
| Barium | ppm | ASTM D5185m 90 | 0 | 0 | 0 |
| Molybdenum | ppm | ASTM D5185m | 0 | 0 | 0 |
| Manganese | ppm | ASTM D5185m | <1 | 0 | 0 |
| Magnesium | ppm | ASTM D5185m 90 | 10 | 0 | 11 |
| Calcium | ppm | ASTM D5185m 2 | 0 | 0 | 0 |
| Phosphorus | ppm | ASTM D5185m | 10 | 3 | 3 |
| Zinc | ppm | ASTM D5185m | 0 | 0 | 3 |

CONTAMINANTS

| | method | limit/base | current | history 1 | history 2 |
|-----------|--------|------------------|--------------|-----------|-----------|
| Silicon | ppm | ASTM D5185m >25 | 1 | <1 | <1 |
| Sodium | ppm | ASTM D5185m | 4 | 1 | 4 |
| Potassium | ppm | ASTM D5185m >20 | 1 | 0 | 0 |
| Water | % | ASTM D6304 >0.05 | 0.016 | 0.003 | 0.004 |
| ppm Water | ppm | ASTM D6304 >500 | 162.9 | 29.3 | 43.5 |

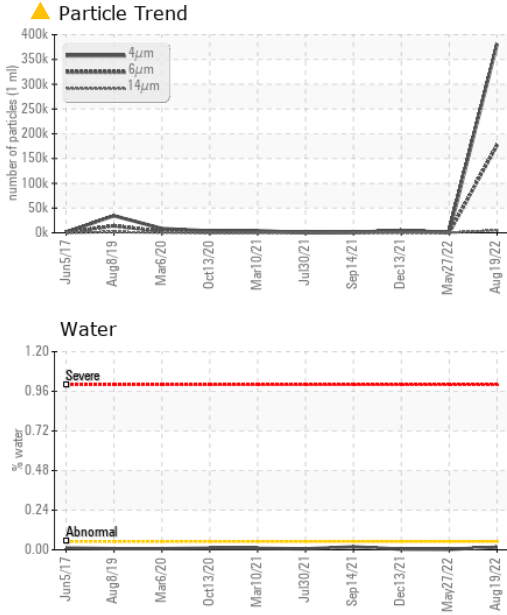
FLUID CLEANLINESS

| | method | limit/base | current | history 1 | history 2 |
|-----------------|--------------|------------|-----------------|-----------|-----------|
| Particles >4µm | ASTM D7647 | | 381537 | 890 | 4832 |
| Particles >6µm | ASTM D7647 | >1300 | ▲ 177395 | 221 | ▲ 1352 |
| Particles >14µm | ASTM D7647 | >80 | ▲ 4904 | 10 | ▲ 105 |
| Particles >21µm | ASTM D7647 | >20 | ▲ 453 | 4 | ▲ 23 |
| Particles >38µm | ASTM D7647 | >4 | ▲ 14 | 0 | 0 |
| Particles >71µm | ASTM D7647 | >3 | 1 | 0 | 0 |
| Oil Cleanliness | ISO 4406 (c) | >17/13 | ▲ 25/19 | 15/10 | ▲ 18/14 |

FLUID DEGRADATION

| | method | limit/base | current | history 1 | history 2 |
|------------------|----------|----------------|-------------|-----------|-----------|
| Acid Number (AN) | mg KOH/g | ASTM D8045 0.4 | 0.16 | 0.38 | 0.323 |

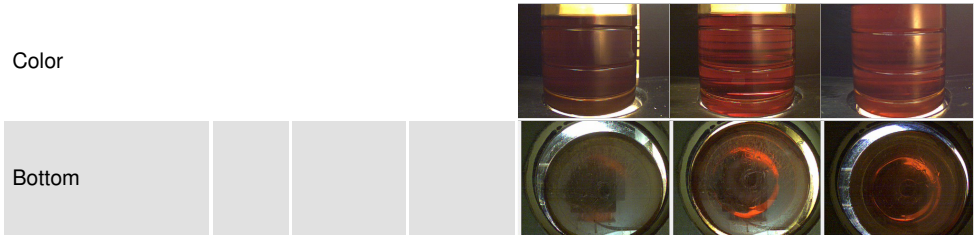
OIL ANALYSIS REPORT



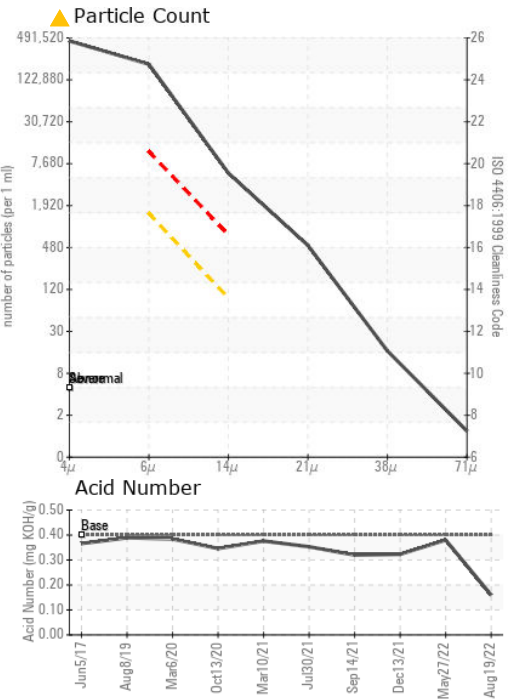
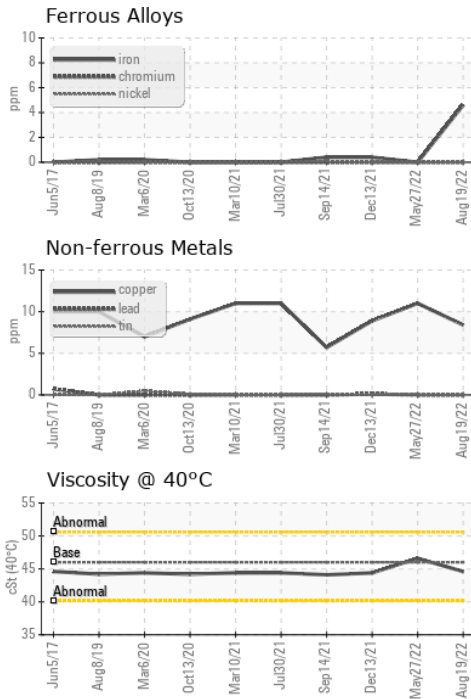
| VISUAL | method | limit/base | current | history 1 | history 2 |
|------------------|--------|------------|---------|-----------|-----------|
| White Metal | scalar | *Visual | NONE | NONE | NONE |
| Yellow Metal | scalar | *Visual | NONE | NONE | NONE |
| Precipitate | scalar | *Visual | NONE | NONE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

| FLUID PROPERTIES | method | limit/base | current | history 1 | history 2 |
|------------------|--------|------------|---------|-----------|-----------|
| Visc @ 40°C | cSt | ASTM D445 | 46 | 44.6 | 44.4 |

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



GRAPHS



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : KC78107 **Received** : 22 Sep 2022
Lab Number : 05648342 **Diagnosed** : 24 Sep 2022
Unique Number : 10142881 **Diagnostician** : Doug Bogart
Test Package : IND 2

STATLAB
 2090 COMMERCE DR
 MCKINNEY, TX
 USA 45069
 Contact:

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: