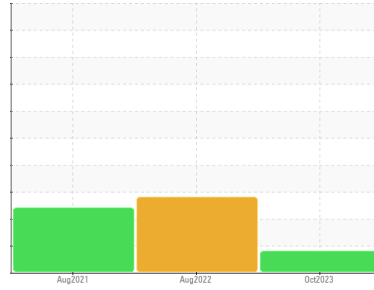




PROBLEM SUMMARY

Sample Rating Trend



CONTAMINANT



Machine Id
KAESER 7424155 (S/N 1083)
 Component
Compressor
 Fluid
KAESER SIGMA (OEM) M-460 (--- GAL)

COMPONENT CONDITION SUMMARY

No relevant graphs to display


RECOMMENDATION

Resample at the next service interval to monitor.

PROBLEMATIC TEST RESULTS

| Sample Status | ATTENTION | ABNORMAL | ABNORMAL |
|---------------|----------------|----------|----------------------|
| Appearance | scalar *Visual | NORML | ▲ HAZY ▲ HAZY |

Customer Id: SUDSAL
Sample No.: KCPA009058
Lab Number: 05997412
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

To change component or sample information:
 Customer Service +1 1-800-237-1369
customerservice@wearcheck.com

RECOMMENDED ACTIONS

There are no recommended actions for this sample.

HISTORICAL DIAGNOSIS

30 Aug 2022 Diag: Don Baldrige

WATER



Oil and filter change at the time of sampling has been noted. We were unable to perform a particle count due to a high concentration of particles present in this sample. We recommend an early resample in 500 hours to monitor this condition. All component wear rates are normal. Moderate concentration of visible dirt/debris present in the oil. There is a light concentration of water present in the oil. The AN level is acceptable for this fluid.

[view report](#)



03 Aug 2021 Diag: Angela Borella

WATER



Oil and filter change at the time of sampling has been noted. We recommend an early resample in 500 hours to monitor this condition. 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. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

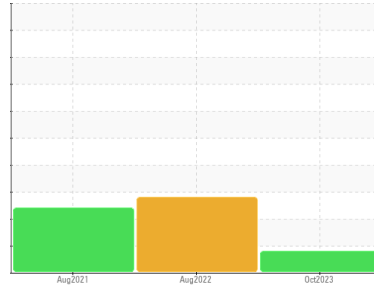
[view report](#)





OIL ANALYSIS REPORT

Sample Rating Trend



CONTAMINANT



Machine Id
KAESER 7424155 (S/N 1083)

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

DIAGNOSIS

▲ Recommendation

Resample at the next service interval to monitor.

Wear

All component wear rates are normal.

▲ Contamination

Appearance is hazy. The amount and size of particulates present in the system are acceptable. There is no indication of any contamination 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 | KCPA009058 | KCP30979 | KCP41597 | |
| Sample Date | Client Info | 30 Oct 2023 | 30 Aug 2022 | 03 Aug 2021 | |
| Machine Age | hrs | Client Info | 1952 | 1147 | 509 |
| Oil Age | hrs | Client Info | 0 | 224 | 509 |
| Oil Changed | Client Info | N/A | Changed | Changed | |
| Sample Status | | ATTENTION | ABNORMAL | ABNORMAL | |

WEAR METALS

| method | limit/base | current | history1 | history2 | |
|----------|------------|-----------------|--------------|----------|----|
| Iron | ppm | ASTM D5185m >50 | <1 | <1 | 0 |
| Chromium | ppm | ASTM D5185m >10 | <1 | 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 | <1 | 0 |
| Lead | ppm | ASTM D5185m >10 | <1 | <1 | 0 |
| Copper | ppm | ASTM D5185m >50 | 2 | 2 | 20 |
| 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 | history1 | history2 | |
|------------|------------|-------------------|--------------|----------|-------|
| Boron | ppm | ASTM D5185m 0 | 0 | 0 | 0 |
| Barium | ppm | ASTM D5185m 90 | 0 | 0 | 3 |
| Molybdenum | ppm | ASTM D5185m 0 | 0 | 0 | 0 |
| Manganese | ppm | ASTM D5185m | 0 | <1 | 0 |
| Magnesium | ppm | ASTM D5185m 100 | 13 | 24 | 9 |
| Calcium | ppm | ASTM D5185m 0 | <1 | 0 | 0 |
| Phosphorus | ppm | ASTM D5185m 0 | 0 | 3 | 6 |
| Zinc | ppm | ASTM D5185m 0 | 45 | 30 | 0 |
| Sulfur | ppm | ASTM D5185m 23500 | 22486 | 18523 | 14700 |

CONTAMINANTS

| method | limit/base | current | history1 | history2 | |
|-----------|------------|------------------|--------------|----------|---------|
| Silicon | ppm | ASTM D5185m >25 | 0 | 0 | 0 |
| Sodium | ppm | ASTM D5185m | <1 | 4 | 0 |
| Potassium | ppm | ASTM D5185m >20 | 7 | 4 | 3 |
| Water | % | ASTM D6304 >0.05 | 0.014 | ▲ 0.358 | ▲ 0.220 |
| ppm Water | ppm | ASTM D6304 >500 | 140 | ▲ 3580 | ▲ 2200 |

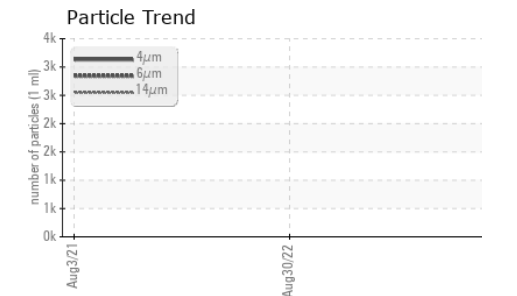
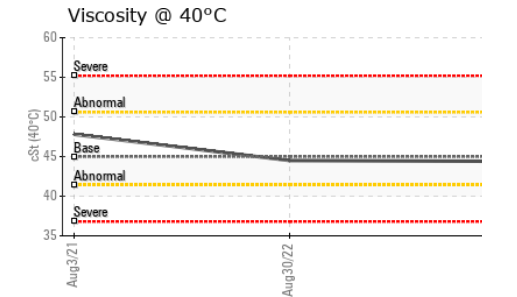
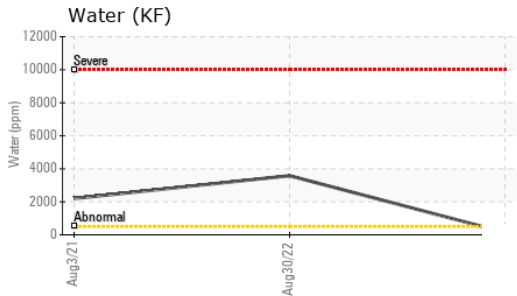
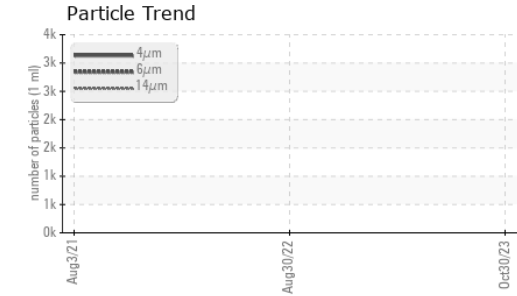
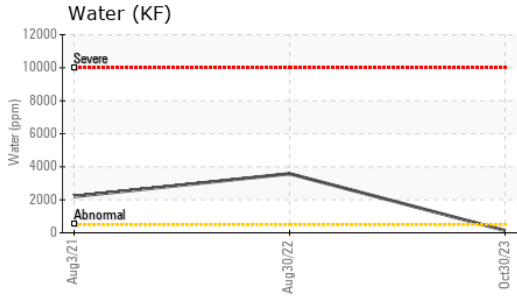
FLUID CLEANLINESS

| method | limit/base | current | history1 | history2 |
|-----------------|------------------------|-----------------|----------|----------|
| Particles >4µm | ASTM D7647 | 3455 | --- | --- |
| Particles >6µm | ASTM D7647 >1300 | 1059 | --- | --- |
| Particles >14µm | ASTM D7647 >80 | 34 | --- | --- |
| Particles >21µm | ASTM D7647 >20 | 9 | --- | --- |
| Particles >38µm | ASTM D7647 >4 | 0 | --- | --- |
| Particles >71µm | ASTM D7647 >3 | 0 | --- | --- |
| Oil Cleanliness | ISO 4406 (c) >--/17/13 | 19/17/12 | --- | --- |

FLUID DEGRADATION

| method | limit/base | current | history1 | history2 | |
|------------------|------------|----------------|-------------|----------|-------|
| Acid Number (AN) | mg KOH/g | ASTM D8045 1.0 | 0.20 | 0.25 | 0.303 |

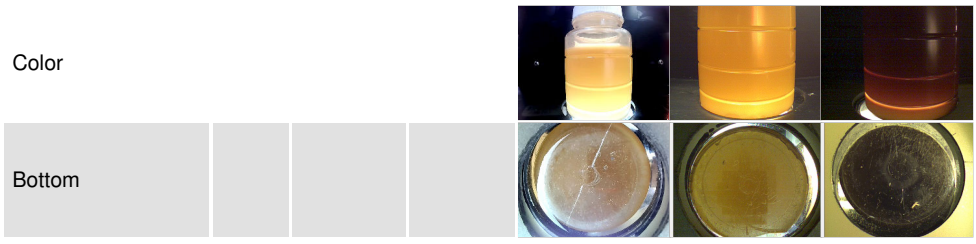
OIL ANALYSIS REPORT



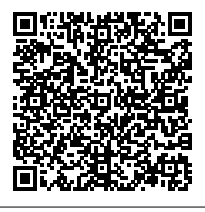
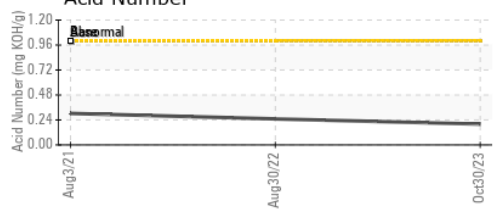
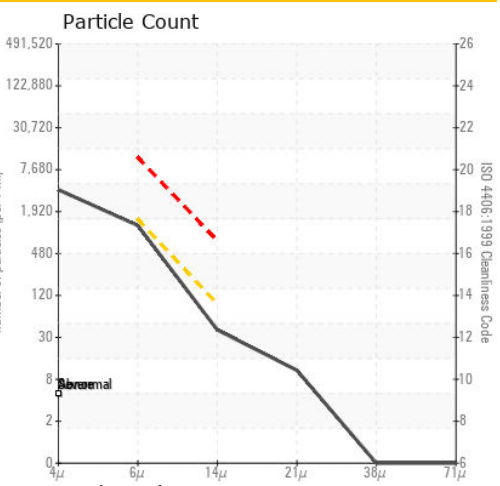
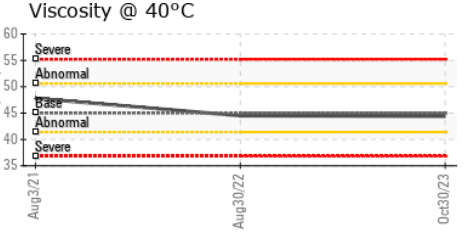
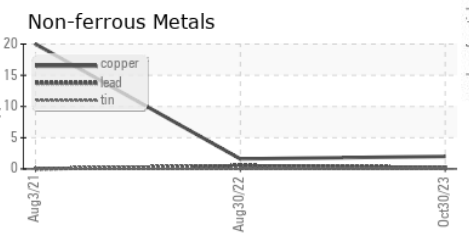
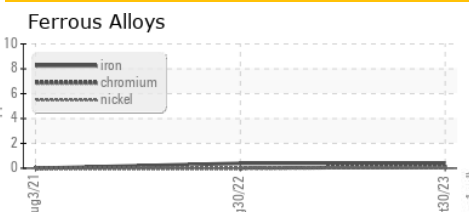
| VISUAL | method | limit/base | current | history1 | history2 |
|------------------|--------|------------|---------|----------|----------|
| White Metal | scalar | *Visual | NONE | NONE | NONE |
| Yellow Metal | scalar | *Visual | NONE | NONE | NONE |
| Precipitate | scalar | *Visual | NONE | NONE | NONE |
| Silt | scalar | *Visual | NONE | NONE | ▲ MODER |
| Debris | scalar | *Visual | NONE | ▲ MODER | NONE |
| Sand/Dirt | scalar | *Visual | NONE | NONE | NONE |
| Appearance | scalar | *Visual | NORML | ▲ HAZY | NORML |
| Odor | scalar | *Visual | NORML | NORML | NORML |
| Emulsified Water | scalar | *Visual | >0.05 | ▲ 0.2% | ▲ 0.2% |
| Free Water | scalar | *Visual | | NEG | NEG |

| FLUID PROPERTIES | method | limit/base | current | history1 | history2 |
|------------------|--------|------------|---------|----------|----------|
| Visc @ 40°C | cSt | ASTM D445 | 45 | 44.4 | 44.5 |

| SAMPLE IMAGES | method | limit/base | current | history1 | history2 |
|---------------|--------|------------|---------|----------|----------|
|---------------|--------|------------|---------|----------|----------|



GRAPHS



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : KCPA009058 **Received** : 02 Nov 2023
Lab Number : 05997412 **Diagnosed** : 07 Nov 2023
Unique Number : 10725772 **Diagnostician** : Don Baldrige
Test Package : IND 2 (Additional Tests: KF, PrtCount)

SUDDEN IMPACT BODY SHOP
 6330 MOORESVILLE RD
 SALISBURY, NC
 US 28147
 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: