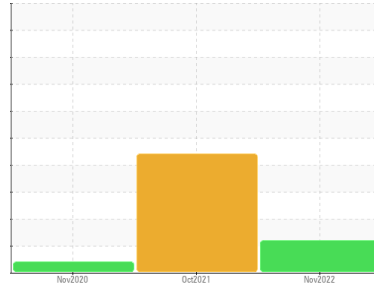




PROBLEM SUMMARY

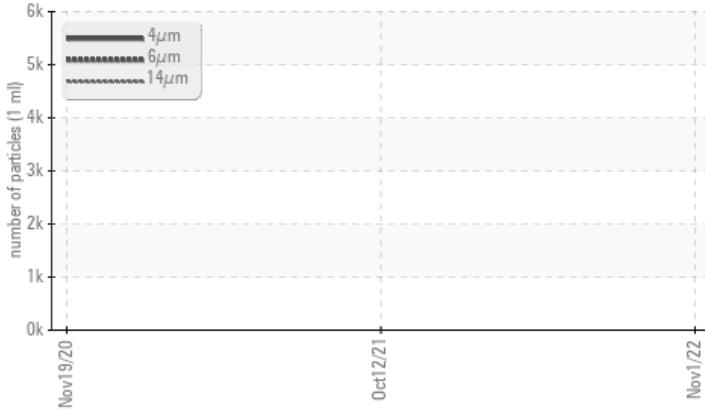
Sample Rating Trend



Machine Id
5864326 (S/N 5325)
 Component
Compressor
 Fluid
KAESER SIGMA (OEM) M-460 (--- GAL)

COMPONENT CONDITION SUMMARY

▲ Particle Trend



RECOMMENDATION

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 | ABNORMAL |
|-----------------|--------------|-----------|-------------------|----------|----------|
| Particles >14µm | ASTM D7647 | >80 | ▲ 84 | --- | --- |
| Particles >21µm | ASTM D7647 | >20 | ▲ 32 | --- | --- |
| Oil Cleanliness | ISO 4406 (c) | >--/17/13 | ▲ 20/17/14 | --- | --- |

Customer Id: UNİYAD
 Sample No.: KCP47131D
 Lab Number: 05688452
 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

| 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

12 Oct 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. An increase in the iron level is noted. All other component wear rates are normal. There is a light concentration of water present in the oil. Free water present. Moderate concentration of visible dirt/debris present in the oil. The AN level is acceptable for this fluid. The condition of the oil is acceptable for the time in service.

[view report](#)



19 Nov 2020 Diag: Jonathan Hester

VIS DEBRIS



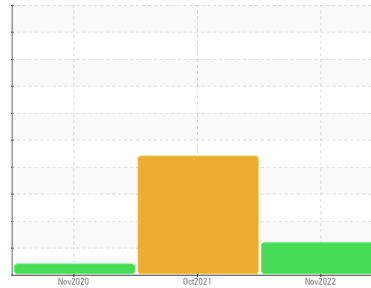
Oil and filter change at the time of sampling has been noted. Resample at the next service interval to monitor. We were unable to perform a particle count due to a high concentration of particles present in this sample. All component wear rates are normal. Moderate concentration of visible dirt/debris present in the oil. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

[view report](#)



OIL ANALYSIS REPORT

Sample Rating Trend



ISO



Machine Id
5864326 (S/N 5325)

Component

Compressor

Fluid

KAESER SIGMA (OEM) M-460 (--- GAL)

DIAGNOSIS

▲ Recommendation

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 | history1 | history2 |
|---------------|-------------|-------------|--------------------|-------------|-------------|
| Sample Number | Client Info | | KCP47131D | KCP37127 | KCP34058 |
| Sample Date | Client Info | | 01 Nov 2022 | 12 Oct 2021 | 19 Nov 2020 |
| Machine Age | hrs | Client Info | 28053 | 26950 | 20121 |
| Oil Age | hrs | Client Info | 2500 | 7000 | 3000 |
| Oil Changed | Client Info | | Changed | Changed | Changed |
| Sample Status | | | ATTENTION | ABNORMAL | ABNORMAL |

WEAR METALS

| | method | limit/base | current | history1 | history2 |
|----------|--------|-----------------|--------------|----------|----------|
| Iron | ppm | ASTM D5185m >50 | 4 | ▲ 20 | 0 |
| Chromium | ppm | ASTM D5185m >10 | 0 | 0 | 0 |
| Nickel | ppm | ASTM D5185m >3 | 0 | <1 | 0 |
| Titanium | ppm | ASTM D5185m >3 | 0 | 0 | 0 |
| Silver | ppm | ASTM D5185m >2 | 0 | 0 | <1 |
| Aluminum | ppm | ASTM D5185m >10 | <1 | <1 | 0 |
| Lead | ppm | ASTM D5185m >10 | 0 | 0 | 0 |
| Copper | ppm | ASTM D5185m >50 | 2 | 6 | 2 |
| Tin | ppm | ASTM D5185m >10 | 0 | 0 | <1 |
| Antimony | ppm | ASTM D5185m | --- | 1 | 0 |
| Vanadium | ppm | ASTM D5185m | 0 | <1 | 0 |
| Cadmium | ppm | ASTM D5185m | 0 | <1 | 0 |

ADDITIVES

| | method | limit/base | current | history1 | history2 |
|------------|--------|-------------------|--------------|----------|----------|
| Boron | ppm | ASTM D5185m 0 | 0 | 19 | 9 |
| Barium | ppm | ASTM D5185m 90 | 0 | 5 | 29 |
| Molybdenum | ppm | ASTM D5185m 0 | 0 | 0 | 0 |
| Manganese | ppm | ASTM D5185m | <1 | <1 | <1 |
| Magnesium | ppm | ASTM D5185m 100 | 51 | 7 | 62 |
| Calcium | ppm | ASTM D5185m 0 | 0 | 3 | 0 |
| Phosphorus | ppm | ASTM D5185m 0 | 15 | 3 | 3 |
| Zinc | ppm | ASTM D5185m 0 | 10 | 16 | 2 |
| Sulfur | ppm | ASTM D5185m 23500 | 21700 | 33787 | 16350 |

CONTAMINANTS

| | method | limit/base | current | history1 | history2 |
|-----------|--------|------------------|--------------|----------|----------|
| Silicon | ppm | ASTM D5185m >25 | 1 | 2 | <1 |
| Sodium | ppm | ASTM D5185m | 17 | 1 | 13 |
| Potassium | ppm | ASTM D5185m >20 | 4 | 0 | <1 |
| Water | % | ASTM D6304 >0.05 | 0.022 | ▲ 0.391 | 0.020 |
| ppm Water | ppm | ASTM D6304 >500 | 220.4 | ▲ 3910 | 206.8 |

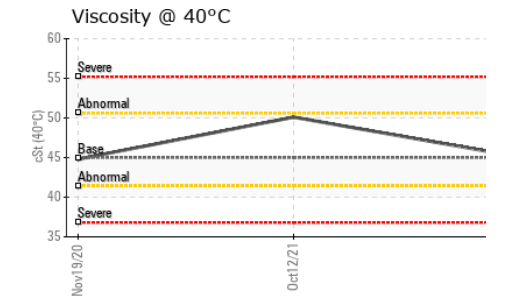
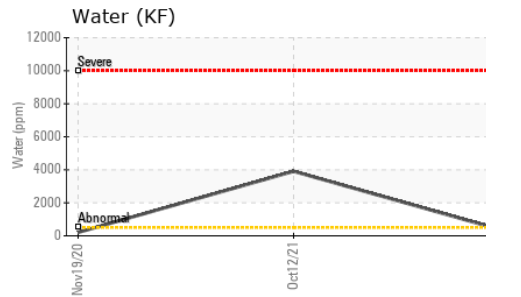
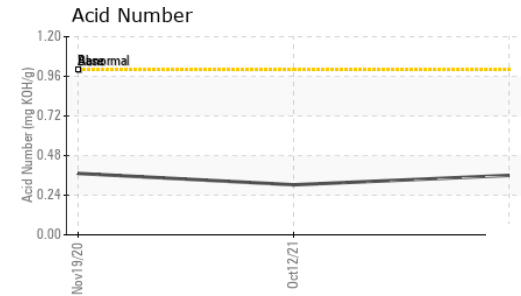
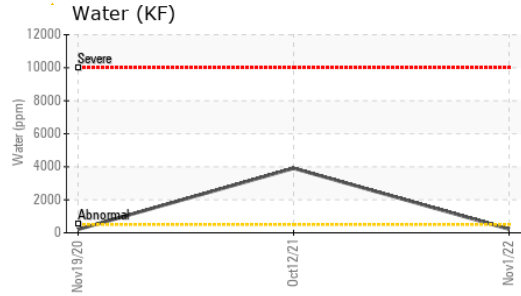
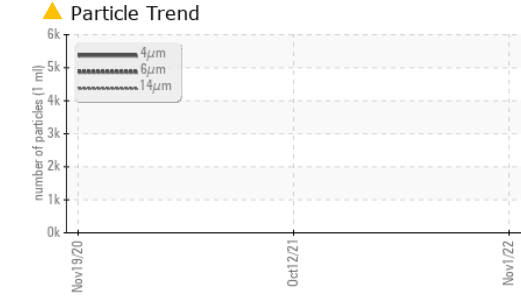
FLUID CLEANLINESS

| | method | limit/base | current | history1 | history2 |
|-----------------|--------------|------------|-------------------|----------|----------|
| Particles >4µm | ASTM D7647 | | 5842 | --- | --- |
| Particles >6µm | ASTM D7647 | >1300 | 1163 | --- | --- |
| Particles >14µm | ASTM D7647 | >80 | ▲ 84 | --- | --- |
| Particles >21µm | ASTM D7647 | >20 | ▲ 32 | --- | --- |
| Particles >38µm | ASTM D7647 | >4 | 4 | --- | --- |
| Particles >71µm | ASTM D7647 | >3 | 0 | --- | --- |
| Oil Cleanliness | ISO 4406 (c) | >--/17/13 | ▲ 20/17/14 | --- | --- |

FLUID DEGRADATION

| | method | limit/base | current | history1 | history2 |
|------------------|----------|----------------|-------------|----------|----------|
| Acid Number (AN) | mg KOH/g | ASTM D8045 1.0 | 0.36 | 0.303 | 0.372 |

OIL ANALYSIS REPORT



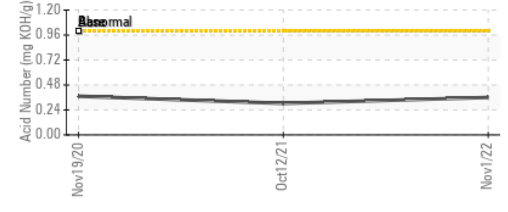
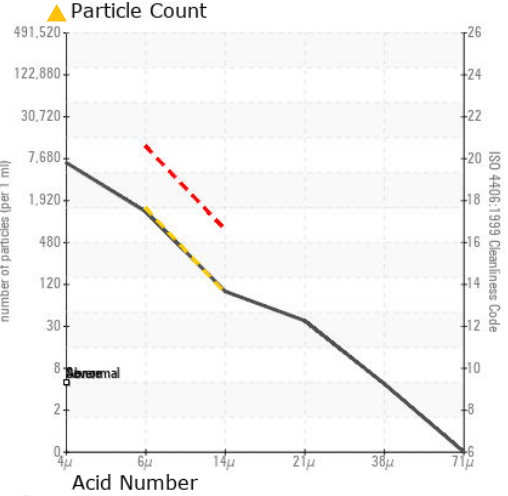
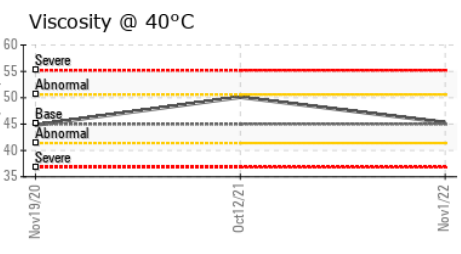
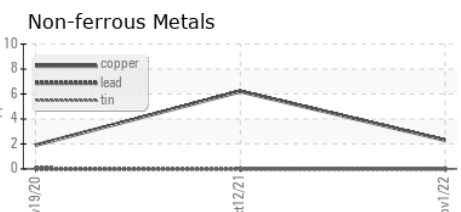
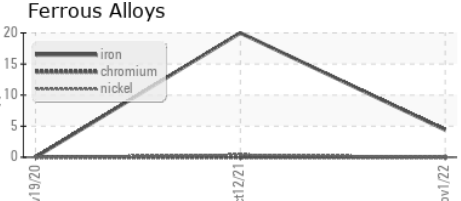
| PARAMETER | method | limit/base | current | history1 | history2 |
|------------------|--------|------------|---------|----------|----------|
| White Metal | scalar | *Visual | NONE | NONE | NONE |
| Yellow Metal | scalar | *Visual | NONE | NONE | NONE |
| Precipitate | scalar | *Visual | NONE | NONE | NONE |
| Silt | scalar | *Visual | NONE | NONE | NONE |
| Debris | scalar | *Visual | NONE | ▲ MODER | ▲ MODER |
| 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 | | ▲ 1.0 | NEG |

| FLUID PROPERTIES | method | limit/base | current | history1 | history2 | |
|------------------|--------|------------|---------|----------|----------|------|
| Visc @ 40°C | cSt | ASTM D445 | 45 | 45.3 | 50.1 | 44.8 |

SAMPLE IMAGES

| method | limit/base | current | history1 | history2 |
|--------|------------|---------|----------|----------|
| Color | | | | |
| Bottom | | | | |

GRAPHS



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : KCP47131D **Received** : 08 Nov 2022
Lab Number : 05688452 **Diagnosed** : 10 Nov 2022
Unique Number : 10208024 **Diagnostician** : Don Baldrige
Test Package : IND 2 (Additional Tests: KF, PrtCount)

UNIFI MANUFACTURING INC
 1032 UNIFI INDUSTRIAL RD
 YADKINVILLE, NC
 US 27055
 Contact: R. WOODALL
 RWOODALL@UNIFI.COM

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)