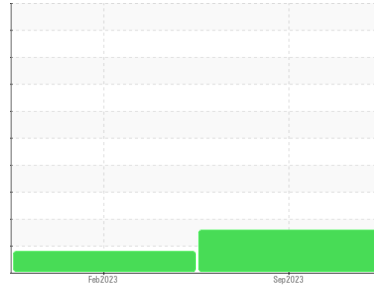




PROBLEM SUMMARY

Sample Rating Trend



WATER

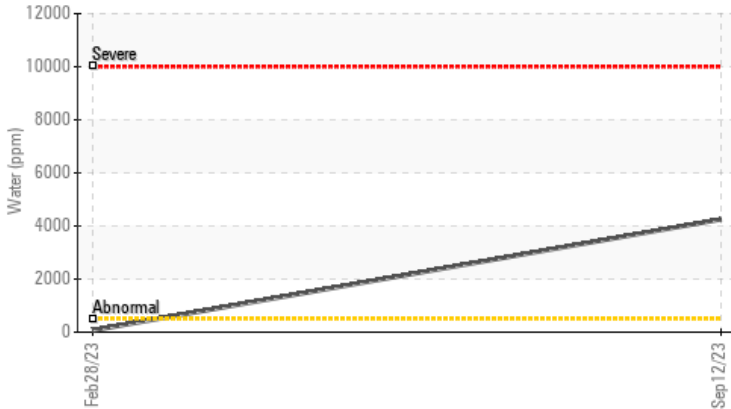


Machine Id
KAESER 5162613

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

COMPONENT CONDITION SUMMARY

▲ Water (KF)



RECOMMENDATION

Oil and filter change at the time of sampling has been noted. There is too much water present in this sample to perform a particle count. We recommend an early resample in 500 hours to monitor this condition.

PROBLEMATIC TEST RESULTS

| Sample Status | | | | ABNORMAL | ATTENTION | --- |
|------------------|--------|------------|-------|-----------------|-----------|-----|
| Water | % | ASTM D6304 | >0.05 | ▲ 0.425 | 0.006 | --- |
| ppm Water | ppm | ASTM D6304 | >500 | ▲ 4250 | 65.4 | --- |
| Emulsified Water | scalar | *Visual | >0.05 | ▲ 0.2% | NEG | --- |

Customer Id: CONSTHCA
Sample No.: KCP40061
Lab Number: 05966315
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

28 Feb 2023 Diag: Jonathan Hester

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 moderate amount of silt (particulates < 14 microns in size) present in the oil. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

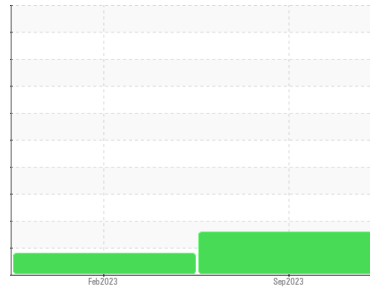
view report





OIL ANALYSIS REPORT

Sample Rating Trend



WATER



Machine Id
KAESER 5162613
 Component
Compressor
 Fluid
KAESER SIGMA (OEM) M-460 (--- GAL)

DIAGNOSIS

▲ Recommendation

Oil and filter change at the time of sampling has been noted. There is too much water present in this sample to perform a particle count. We recommend an early resample in 500 hours to monitor this condition.

Wear

All component wear rates are normal.

▲ Contamination

There is a moderate concentration of water present in the oil.

Fluid Condition

The AN level is acceptable for this fluid.

| SAMPLE INFORMATION | | method | limit/base | current | history1 | history2 |
|--------------------|-------------|-------------|------------|--------------------|-------------|----------|
| Sample Number | Client Info | | | KCP40061 | KCP55980 | --- |
| Sample Date | Client Info | | | 12 Sep 2023 | 28 Feb 2023 | --- |
| Machine Age | hrs | Client Info | | 18375 | 17325 | --- |
| Oil Age | hrs | Client Info | | 17325 | 0 | --- |
| Oil Changed | Client Info | | | Changed | Changed | --- |
| Sample Status | | | | ABNORMAL | ATTENTION | --- |

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

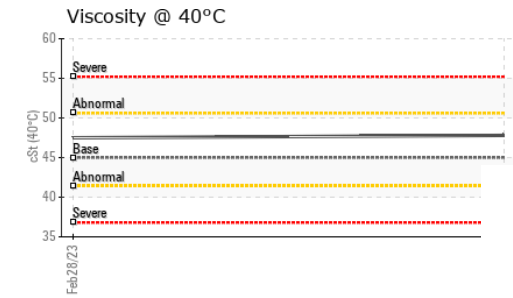
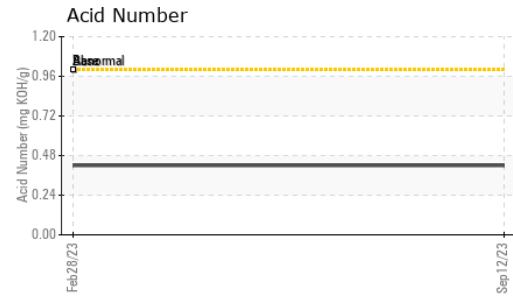
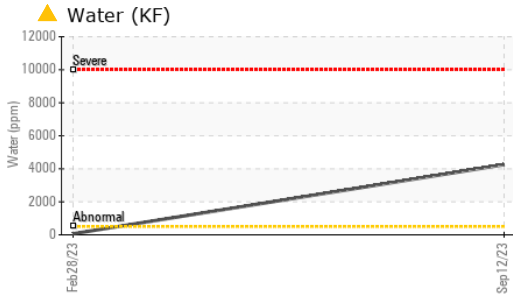
| ADDITIVES | | method | limit/base | current | history1 | history2 |
|------------|-----|-------------|------------|--------------|----------|----------|
| Boron | ppm | ASTM D5185m | 0 | 0 | 0 | --- |
| Barium | ppm | ASTM D5185m | 90 | 3 | 0 | --- |
| Molybdenum | ppm | ASTM D5185m | 0 | 0 | 0 | --- |
| Manganese | ppm | ASTM D5185m | | <1 | 0 | --- |
| Magnesium | ppm | ASTM D5185m | 100 | 39 | 2 | --- |
| Calcium | ppm | ASTM D5185m | 0 | 1 | 0 | --- |
| Phosphorus | ppm | ASTM D5185m | 0 | 8 | 22 | --- |
| Zinc | ppm | ASTM D5185m | 0 | 13 | 14 | --- |
| Sulfur | ppm | ASTM D5185m | 23500 | 19263 | 18538 | --- |

| CONTAMINANTS | | method | limit/base | current | history1 | history2 |
|--------------|-----|-------------|------------|----------------|----------|----------|
| Silicon | ppm | ASTM D5185m | >25 | 6 | 7 | --- |
| Sodium | ppm | ASTM D5185m | | 2 | 2 | --- |
| Potassium | ppm | ASTM D5185m | >20 | <1 | 0 | --- |
| Water | % | ASTM D6304 | >0.05 | ▲ 0.425 | 0.006 | --- |
| ppm Water | ppm | ASTM D6304 | >500 | ▲ 4250 | 65.4 | --- |

| FLUID CLEANLINESS | | method | limit/base | current | history1 | history2 |
|-------------------|--|--------------|------------|---------|-------------------|----------|
| Particles >4µm | | ASTM D7647 | | --- | 8854 | --- |
| Particles >6µm | | ASTM D7647 | >1300 | --- | ▲ 1773 | --- |
| Particles >14µm | | ASTM D7647 | >80 | --- | 61 | --- |
| Particles >21µm | | ASTM D7647 | >20 | --- | 13 | --- |
| Particles >38µm | | ASTM D7647 | >4 | --- | 1 | --- |
| Particles >71µm | | ASTM D7647 | >3 | --- | 0 | --- |
| Oil Cleanliness | | ISO 4406 (c) | >--/17/13 | --- | ▲ 20/18/13 | --- |

| FLUID DEGRADATION | | method | limit/base | current | history1 | history2 |
|-------------------|----------|------------|------------|-------------|----------|----------|
| Acid Number (AN) | mg KOH/g | ASTM D8045 | 1.0 | 0.42 | 0.42 | --- |

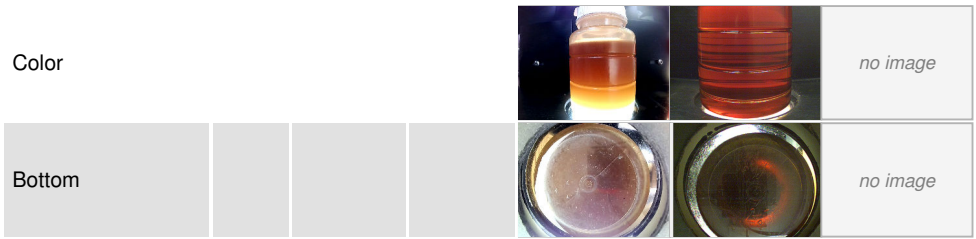
OIL ANALYSIS REPORT



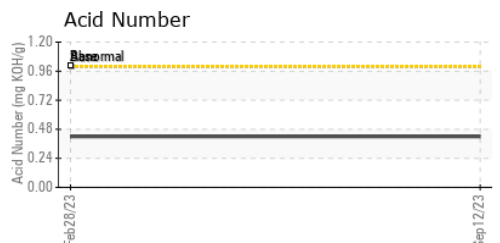
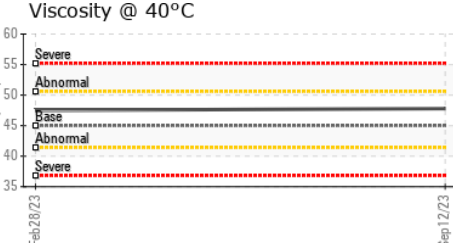
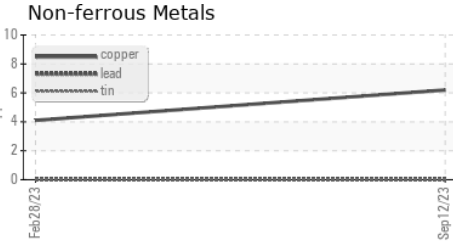
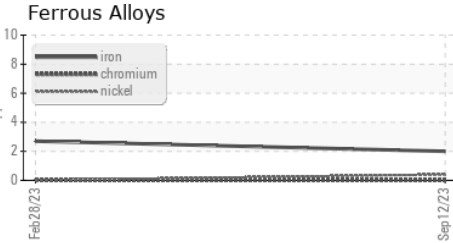
| VISUAL | method | limit/base | current | history1 | history2 |
|------------------|--------|------------|---------|----------|----------|
| White Metal | scalar | *Visual | NONE | NONE | --- |
| Yellow Metal | scalar | *Visual | NONE | NONE | --- |
| Precipitate | scalar | *Visual | NONE | NONE | ---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

| FLUID PROPERTIES | method | limit/base | current | history1 | history2 |
|------------------|--------|------------|---------|----------|----------|
| Visc @ 40°C | cSt | ASTM D445 | 45 | 47.8 | 47.5 |

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



GRAPHS



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : KCP40061 **Received** : 02 Oct 2023
Lab Number : 05966315 **Diagnosed** : 03 Oct 2023
Unique Number : 10672866 **Diagnostician** : Don Baldrige
Test Package : IND 2 (Additional Tests: KF, PrtCount)

CONN CREEK WINERY
 8711 SILVERADO TRAIL
 ST HELENA, CA
 US 94574
 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: