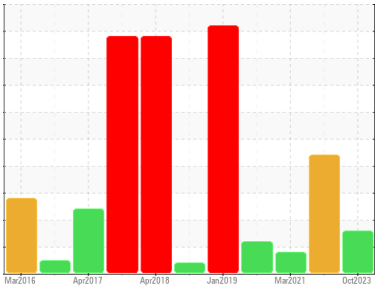
# PROBLEM SUMMARY

Sample Rating Trend




**WATER**

Machine Id
## KAESER ASD 30 5295588 (S/N 1154)
Component
**Compressor**
Fluid
**KAESER SIGMA (OEM) S-460 (--- GAL)**

## COMPONENT CONDITION SUMMARY

No relevant graphs to display

## RECOMMENDATION

There is too much water present in this sample to perform a particle count. We advise that you stop the unit and follow the water drain-off procedure for this component. We recommend an early resample in 500 hours to monitor this condition.

## PROBLEMATIC TEST RESULTS

| Sample Status | | | | **ABNORMAL** | ABNORMAL | ATTENTION |
|---|---|---|---|---|---|---|
| Free Water | scalar | *Visual | | ▲ **>10%** | ▲ >10% | NEG |

**Customer Id:** SHAROM
**Sample No.:** KCPA005820
**Lab Number:** 06010787
**Test Package:** IND 2

*To manage this report scan the QR code*

*To discuss the diagnosis or test data:*
Don Baldridge +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

**16 Jul 2021 Diag: Doug Bogart**

WATER

The filter change at the time of sampling has been noted. We advise that you stop the unit and follow the water drain-off procedure for this component. We recommend an early resample in 500 hours to monitor this condition. We were unable to perform a particle count due to a high concentration of particles present in this sample. Please note that this is a corrected copy for laboratory data updates.The copper level is abnormal. All other component wear rates are normal. Moderate concentration of visible dirt/debris present in the oil. Free water present. There is a moderate 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

**15 Mar 2021 Diag: Don Baldridge**

ISO

The 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 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

**23 Dec 2019 Diag: Doug Bogart**

ISO

No corrective action is recommended at this time. The 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

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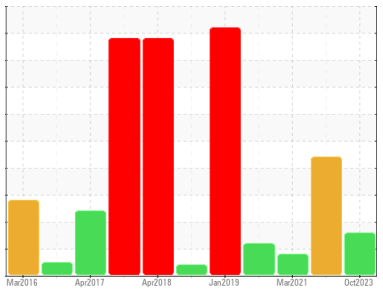
# OIL ANALYSIS REPORT

Sample Rating Trend




**WATER**

Machine Id
## KAESER ASD 30 5295588 (S/N 1154)
Component
**Compressor**
Fluid
**KAESER SIGMA (OEM) S-460 (--- GAL)**

## DIAGNOSIS

**Recommendation**
There is too much water present in this sample to perform a particle count. We advise that you stop the unit and follow the water drain-off procedure for this component. We recommend an early resample in 500 hours to monitor this condition.

**Wear**
All component wear rates are normal.

**Contamination**
Excessive free water present.

**Fluid Condition**
The AN level is acceptable for this fluid.

| SAMPLE INFORMATION | | method | limit/base | current | history1 | history2 |
|---|---|---|---|---|---|---|
| Sample Number | | Client Info | | **KCPA005820** | KCP32041 | KCP28186 |
| Sample Date | | Client Info | | **13 Oct 2023** | 16 Jul 2021 | 15 Mar 2021 |
| Machine Age | hrs | Client Info | | **52625** | 41662 | 39009 |
| Oil Age | hrs | Client Info | | **11590** | 6000 | 3300 |
| Oil Changed | | Client Info | | **N/A** | Not Changd | Not Changd |
| Sample Status | | | | **ABNORMAL** | ABNORMAL | ATTENTION |

| WEAR METALS | | method | limit/base | current | history1 | history2 |
|---|---|---|---|---|---|---|
| Iron | ppm | ASTM D5185m | >50 | **0** | <1 | <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** | <1 | 0 |
| Aluminum | ppm | ASTM D5185m | >10 | **0** | 0 | <1 |
| Lead | ppm | ASTM D5185m | >10 | **0** | <1 | <1 |
| Copper | ppm | ASTM D5185m | >50 | **11** | 7 | 7 |
| Tin | ppm | ASTM D5185m | >10 | **0** | 0 | <1 |
| Antimony | ppm | ASTM D5185m | | **---** | 0 | 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 | 13 |
| Barium | ppm | ASTM D5185m | 90 | **0** | 0 | 0 |
| Molybdenum | ppm | ASTM D5185m | | **0** | 0 | 0 |
| Manganese | ppm | ASTM D5185m | | **0** | <1 | 0 |
| Magnesium | ppm | ASTM D5185m | 90 | **16** | 31 | 32 |
| Calcium | ppm | ASTM D5185m | 2 | **0** | 0 | <1 |
| Phosphorus | ppm | ASTM D5185m | | **0** | 5 | 2 |
| Zinc | ppm | ASTM D5185m | | **135** | 43 | 59 |
| Sulfur | ppm | ASTM D5185m | | **18091** | 16748 | 16115 |

| CONTAMINANTS | | method | limit/base | current | history1 | history2 |
|---|---|---|---|---|---|---|
| Silicon | ppm | ASTM D5185m | >25 | **0** | <1 | 2 |
| Sodium | ppm | ASTM D5185m | | **4** | 2 | 11 |
| Potassium | ppm | ASTM D5185m | >20 | **0** | 1 | 1 |
| Water | % | ASTM D6304 | >0.05 | **0.042** | ▲ 0.748 | 0.013 |
| ppm Water | ppm | ASTM D6304 | >500 | **420** | ▲ 7480 | 136.6 |

| FLUID CLEANLINESS | | method | limit/base | current | history1 | history2 |
|---|---|---|---|---|---|---|
| Particles >4µm | | ASTM D7647 | | **---** | --- | 4420 |
| Particles >6µm | | ASTM D7647 | >1300 | **---** | --- | 996 |
| Particles >14µm | | ASTM D7647 | >80 | **---** | --- | ▲ 89 |
| Particles >21µm | | ASTM D7647 | >20 | **---** | --- | ▲ 26 |
| Particles >38µm | | ASTM D7647 | >4 | **---** | --- | 0 |
| Particles >71µm | | ASTM D7647 | >3 | **---** | --- | 0 |
| Oil Cleanliness | | ISO 4406 (c) | >--/17/13 | **---** | --- | ▲ 17/14 |

| FLUID DEGRADATION | | method | limit/base | current | history1 | history2 |
|---|---|---|---|---|---|---|
| Acid Number (AN) | mg KOH/g | ASTM D8045 | 0.4 | **0.35** | 0.359 | 0.375 |

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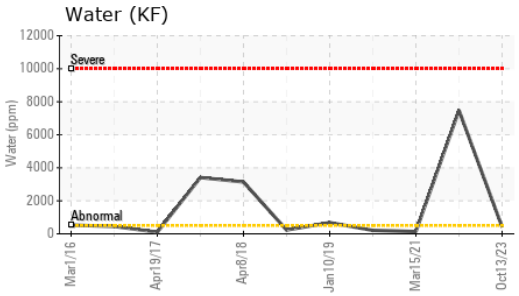
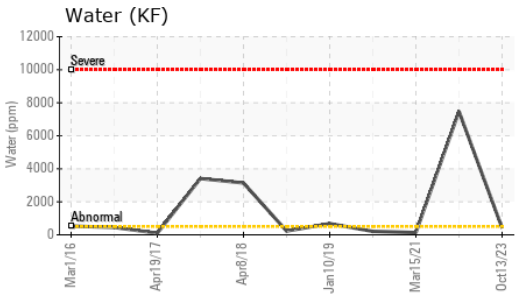
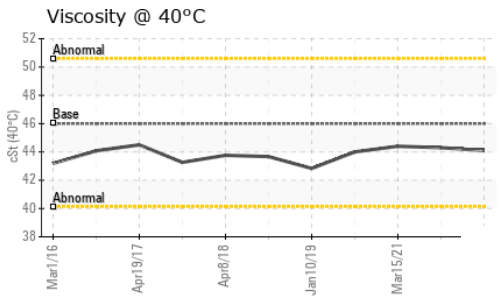
# OIL ANALYSIS REPORT

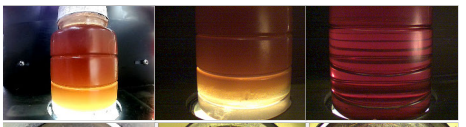
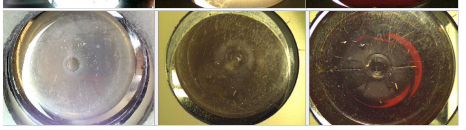


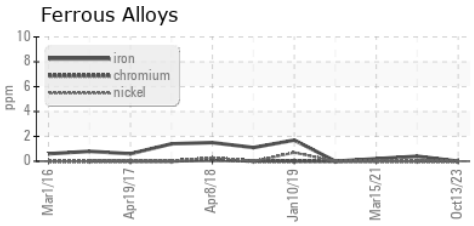



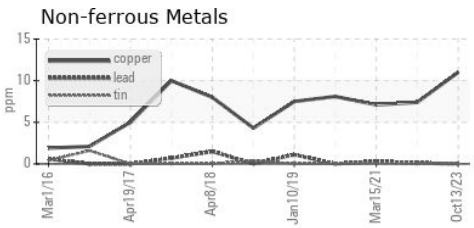

| VISUAL | | method | limit/base | current | history1 | history2 |
|---|---|---|---|---|---|---|
| White Metal | scalar | *Visual | NONE | **NONE** | NONE | VLITE |
| Yellow Metal | scalar | *Visual | NONE | **NONE** | NONE | NONE |
| Precipitate | scalar | *Visual | NONE | **NONE** | NONE | NONE |
| Silt | scalar | *Visual | NONE | **NONE** | NONE | NONE |
| Debris | scalar | *Visual | NONE | **NONE** | ▲ MODER | LIGHT |
| Sand/Dirt | scalar | *Visual | NONE | **NONE** | NONE | NONE |
| Appearance | scalar | *Visual | NORML | **NORML** | ▲ HAZY | NORML |
| Odor | scalar | *Visual | NORML | **NORML** | NORML | NORML |
| Emulsified Water | scalar | *Visual | >0.05 | **0.2%** | NEG | NEG |
| Free Water | scalar | *Visual | | ▲ **>10%** | ▲ >10% | NEG |

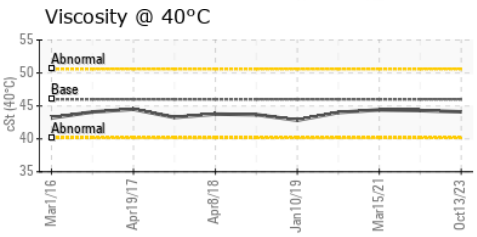
| FLUID PROPERTIES | | method | limit/base | current | history1 | history2 |
|---|---|---|---|---|---|---|
| Visc @ 40°C | cSt | ASTM D445 | 46 | **44.1** | 44.3 | 44.4 |

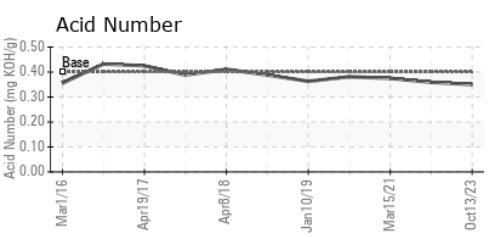
| SAMPLE IMAGES | method | limit/base | current | history1 | history2 |
|---|---|---|---|---|---|
| Color | | |  | | |
| Bottom | | |  | | |

## GRAPHS




Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513
**Sample No.** : KCPA005820 **Received** : 17 Nov 2023
**Lab Number** : 06010787 **Diagnosed** : 20 Nov 2023
**Unique Number** : 10749931 **Diagnostician** : Don Baldridge
**Test Package** : IND 2 ( Additional Tests: KF, PrtCount )

**SHARP TOOLING SOLUTIONS**
70745 POWELL RD
ROMEO, MI
US 48065
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: