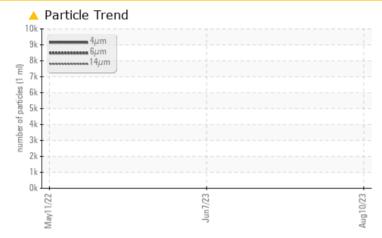




KAESER 7928087

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

COMPONENT CONDITION SUMMARY



RECOMMENDATION

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.

PROBLEMATIC TEST RESULTS Sample Status ABNORMAL ABNORMAL ABNORMAL Particles >6µm ASTM D7647 >1300 3026 Particles >14µm ASTM D7647 >80 205 Particles >21µm ASTM D7647 >20 51 **Oil Cleanliness** ISO 4406 (c) >--/17/13 **A 20/19/15**

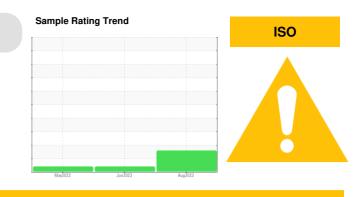
Customer Id: AMAPAR Sample No.: KCPA005977 Lab Number: 05924340 Test Package: IND 2



To manage this report scan the QR code

To discuss the diagnosis or test data: Don Baldridge +1 <u>don.b505@comcast.net</u>

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



There are no recommended actions for this sample.

HISTORICAL DIAGNOSIS

07 Jun 2023 Diag: Don Baldridge

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. 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.



11 May 2022 Diag: Angela Borella



The 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 acceptable for the time in service.





OIL ANALYSIS REPORT

SAMPLE INCODMATION

Sample Rating Trend ISO

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

KAESER 7928087

DIAGNOSIS

Machine Id

Recommendation

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.

Wear

All component wear rates are normal.

Contamination

There is a high amount of particulates present in the oil.

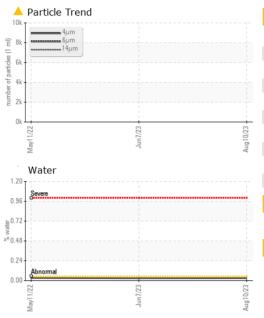
Fluid Condition

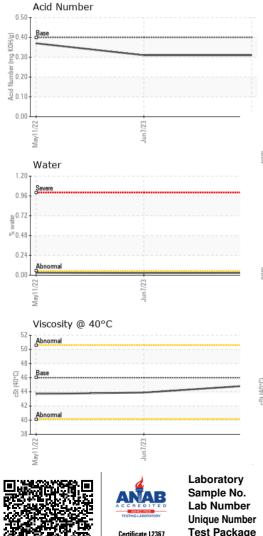
The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

| SAMPLE INFORM | MATION | method | limit/base | current | history1 | history2 |
|------------------|----------|--------------|------------|-------------------|-------------|-------------|
| Sample Number | | Client Info | | KCPA005977 | KCPA003333 | KCP44709 |
| Sample Date | | Client Info | | 10 Aug 2023 | 07 Jun 2023 | 11 May 2022 |
| Machine Age | hrs | Client Info | | 5064 | 4608 | 1581 |
| Oil Age | hrs | Client Info | | 0 | 0 | 860 |
| Oil Changed | | Client Info | | N/A | N/A | Not Changd |
| Sample Status | | | | ABNORMAL | ABNORMAL | ABNORMAL |
| 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 | | 0 | 0 | 0 |
| Silver | ppm | ASTM D5185m | >2 | 0 | 0 | 0 |
| Aluminum | ppm | ASTM D5185m | | <1 | 0 | <1 |
| Lead | ppm | ASTM D5185m | >10 | 0 | 0 | 2 |
| Copper | ppm | ASTM D5185m | | 4 | 6 | 3 |
| Tin | ppm | ASTM D5185m | >10 | 0 | 0 | <1 |
| Vanadium | ppm | ASTM D5185m | ~10 | 0 | 0 | 0 |
| Cadmium | ppm | ASTM D5185m | | 0 | 0 | 0 |
| ADDITIVES | ppm | method | limit/base | current | history1 | history2 |
| | | | in in Dase | | | |
| Boron | ppm | ASTM D5185m | 00 | 0 | 0 | <1 |
| Barium | ppm | ASTM D5185m | 90 | 0 | 41 | 38 |
| Molybdenum | ppm | ASTM D5185m | | 0 | 0 | 0 |
| Manganese | ppm | ASTM D5185m | 0.0 | 0 | <1 | <1 |
| Magnesium | ppm | ASTM D5185m | 90 | 54 | 90 | 71 |
| Calcium | ppm | ASTM D5185m | 2 | <1 | 4 | 1 |
| Phosphorus | ppm | ASTM D5185m | | 4 | 7 | 2 |
| Zinc | ppm | ASTM D5185m | | 0 | 2 | 1 |
| Sulfur | ppm | ASTM D5185m | | 16745 | 20663 | 14848 |
| CONTAMINANTS | 6 | method | limit/base | current | history1 | history2 |
| Silicon | ppm | ASTM D5185m | >25 | 0 | 0 | 2 |
| Sodium | ppm | ASTM D5185m | | 15 | 23 | 12 |
| Potassium | ppm | ASTM D5185m | >20 | 2 | 4 | 0 |
| Water | % | ASTM D6304 | >0.05 | 0.029 | 0.027 | 0.031 |
| ppm Water | ppm | ASTM D6304 | >500 | 298.3 | 279.7 | 317.5 |
| FLUID CLEANLIN | NESS | method | limit/base | current | history1 | history2 |
| Particles >4µm | | ASTM D7647 | | 9562 | | |
| Particles >6µm | | ASTM D7647 | >1300 | <u> </u> | | |
| Particles >14µm | | ASTM D7647 | >80 | <u> </u> | | |
| Particles >21µm | | ASTM D7647 | >20 | <u> </u> | | |
| Particles >38µm | | ASTM D7647 | >4 | 3 | | |
| Particles >71µm | | ASTM D7647 | >3 | 0 | | |
| Oil Cleanliness | | ISO 4406 (c) | >/17/13 | A 20/19/15 | | |
| FLUID DEGRADA | ATION | method | limit/base | current | history1 | history2 |
| Acid Number (AN) | mg KOH/g | ASTM D8045 | 0.4 | 0.31 | 0.31 | 0.37 |
| . / | - 0 | | | | | |



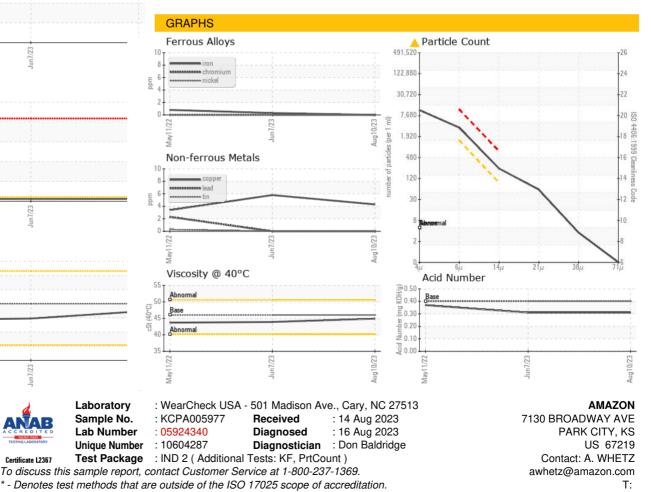
OIL ANALYSIS REPORT





| VISUAL | | method | limit/base | current | history1 | history2 |
|------------------|--------|-----------|------------|---------|----------|----------|
| White Metal | scalar | *Visual | NONE | NONE | NONE | NONE |
| 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 | LIGHT | 🔺 MODER | 🔺 MODER |
| Sand/Dirt | scalar | *Visual | NONE | NONE | NONE | NONE |
| Appearance | scalar | *Visual | NORML | NORML | NORML | NORML |
| Odor | scalar | *Visual | NORML | NORML | NORML | NORML |
| Emulsified Water | scalar | *Visual | >0.05 | NEG | NEG | NEG |
| Free Water | scalar | *Visual | | NEG | NEG | NEG |
| FLUID PROPERTIES | | method | limit/base | current | history1 | history2 |
| Visc @ 40°C | cSt | ASTM D445 | 46 | 44.9 | 43.9 | 43.7 |
| SAMPLE IMAGES | | method | limit/base | current | history1 | history2 |
| Color | | | | | | |

Bottom



Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)

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