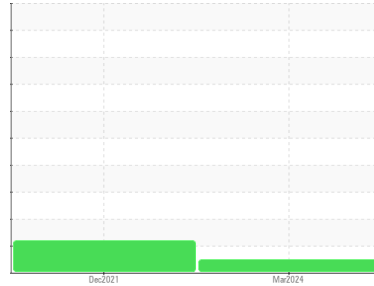




OIL ANALYSIS REPORT

Sample Rating Trend

NORMAL



Machine Id
KAESER AS 25T 7468122 (S/N 1530)

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

There is no indication of any contamination in the oil. The amount and size of particulates present in the system are acceptable.

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 | | | KCPA015019 | KCP39624 | --- |
| Sample Date | Client Info | | | 18 Mar 2024 | 28 Dec 2021 | --- |
| Machine Age | hrs | Client Info | | 7835 | 1134 | --- |
| Oil Age | hrs | Client Info | | 6000 | 1134 | --- |
| Oil Changed | Client Info | | | Changed | Changed | --- |
| Sample Status | | | | NORMAL | ABNORMAL | --- |

| WEAR METALS | | method | limit/base | current | history1 | history2 |
|-------------|-----|-------------|------------|------------|----------|----------|
| Iron | ppm | ASTM D5185m | >50 | 0 | 1 | --- |
| Chromium | ppm | ASTM D5185m | >10 | 0 | 0 | --- |
| Nickel | ppm | ASTM D5185m | >3 | 0 | 0 | --- |
| Titanium | ppm | ASTM D5185m | >3 | 0 | 0 | --- |
| Silver | ppm | ASTM D5185m | >2 | 0 | <1 | --- |
| Aluminum | ppm | ASTM D5185m | >10 | 0 | 2 | --- |
| Lead | ppm | ASTM D5185m | >10 | 0 | <1 | --- |
| Copper | ppm | ASTM D5185m | >50 | 27 | 8 | --- |
| Tin | ppm | ASTM D5185m | >10 | 0 | <1 | --- |
| Antimony | ppm | ASTM D5185m | | --- | <1 | --- |
| Vanadium | ppm | ASTM D5185m | | 0 | 0 | --- |
| Cadmium | ppm | ASTM D5185m | | 0 | 0 | --- |

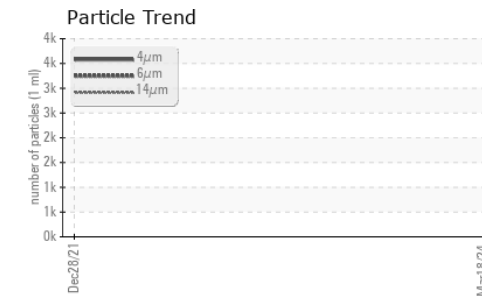
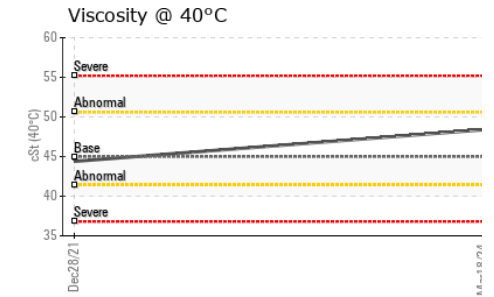
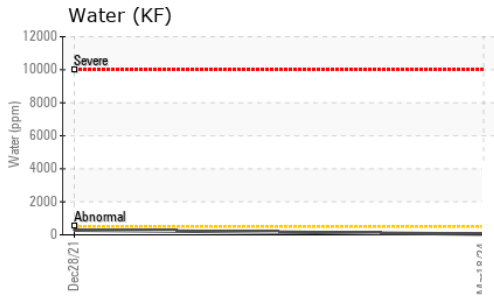
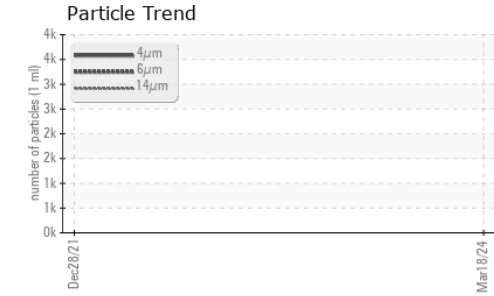
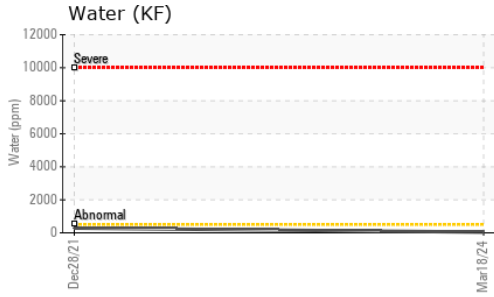
| ADDITIVES | | method | limit/base | current | history1 | history2 |
|------------|-----|-------------|------------|--------------|----------|----------|
| Boron | ppm | ASTM D5185m | 0 | 0 | <1 | --- |
| Barium | ppm | ASTM D5185m | 90 | 0 | <1 | --- |
| Molybdenum | ppm | ASTM D5185m | 0 | 0 | 0 | --- |
| Manganese | ppm | ASTM D5185m | | 0 | <1 | --- |
| Magnesium | ppm | ASTM D5185m | 100 | <1 | 45 | --- |
| Calcium | ppm | ASTM D5185m | 0 | 0 | <1 | --- |
| Phosphorus | ppm | ASTM D5185m | 0 | 0 | 7 | --- |
| Zinc | ppm | ASTM D5185m | 0 | 0 | 1 | --- |
| Sulfur | ppm | ASTM D5185m | 23500 | 18531 | 17891 | --- |

| CONTAMINANTS | | method | limit/base | current | history1 | history2 |
|--------------|-----|-------------|------------|--------------|----------|----------|
| Silicon | ppm | ASTM D5185m | >25 | 0 | <1 | --- |
| Sodium | ppm | ASTM D5185m | | 2 | 11 | --- |
| Potassium | ppm | ASTM D5185m | >20 | 0 | 20 | --- |
| Water | % | ASTM D6304 | >0.05 | 0.004 | 0.028 | --- |
| ppm Water | ppm | ASTM D6304 | >500 | 42 | 283.6 | --- |

| FLUID CLEANLINESS | | method | limit/base | current | history1 | history2 |
|-------------------|--|--------------|------------|-----------------|----------|----------|
| Particles >4µm | | ASTM D7647 | | 3688 | --- | --- |
| Particles >6µm | | ASTM D7647 | >1300 | 816 | --- | --- |
| Particles >14µm | | ASTM D7647 | >80 | 51 | --- | --- |
| Particles >21µm | | ASTM D7647 | >20 | 11 | --- | --- |
| Particles >38µm | | ASTM D7647 | >4 | 0 | --- | --- |
| Particles >71µm | | ASTM D7647 | >3 | 0 | --- | --- |
| Oil Cleanliness | | ISO 4406 (c) | >--/17/13 | 19/17/13 | --- | --- |

| FLUID DEGRADATION | | method | limit/base | current | history1 | history2 |
|-------------------|----------|------------|------------|-------------|----------|----------|
| Acid Number (AN) | mg KOH/g | ASTM D8045 | 1.0 | 0.38 | 0.156 | --- |

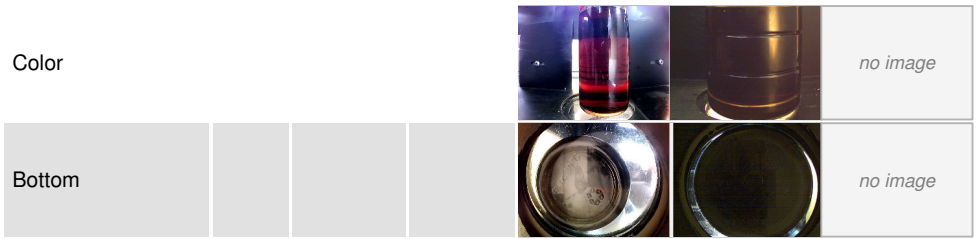
OIL ANALYSIS REPORT



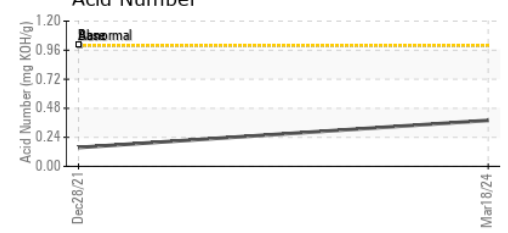
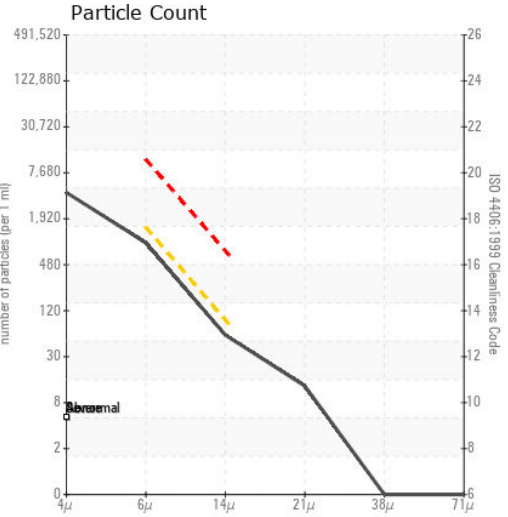
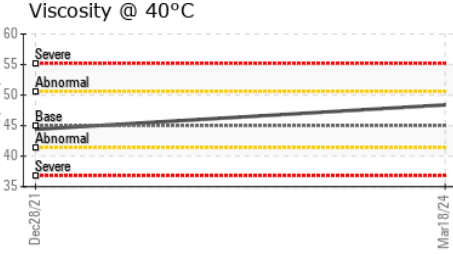
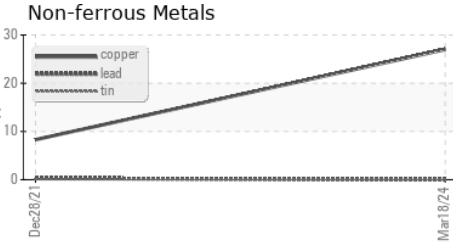
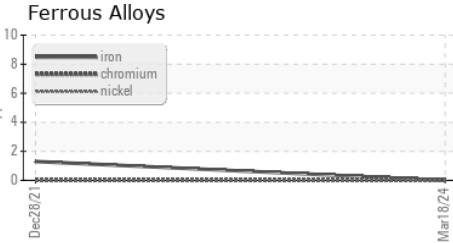
| VISUAL | method | limit/base | current | history1 | history2 |
|------------------|--------|------------|---------|--------------|----------|
| White Metal | scalar | *Visual | NONE | NONE | ▲ MODER |
| Yellow Metal | scalar | *Visual | NONE | NONE | NONE |
| Precipitate | scalar | *Visual | NONE |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

| FLUID PROPERTIES | method | limit/base | current | history1 | history2 |
|------------------|--------|------------|---------|-------------|----------|
| Visc @ 40°C | cSt | ASTM D445 | 45 | 48.4 | 44.4 |

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



GRAPHS



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : KCPA015019 **Received** : 21 Mar 2024
Lab Number : 06125717 **Tested** : 22 Mar 2024
Unique Number : 10939868 **Diagnosed** : 26 Mar 2024 - Jonathan Hester
Test Package : IND 2 (Additional Tests: KF, PrtCount)

OXCO
 547 KINGS RIDGE DR
 FORT MILL, SC
 US 29708
 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: