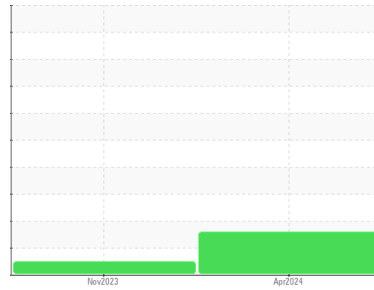




OIL ANALYSIS REPORT

Sample Rating Trend



ISO



Machine Id
KAESER SX 7.5T 9109873 (S/N 1082)
 Component
Compressor
 Fluid
KAESER SIGMA (OEM) S-460 (--- GAL)

DIAGNOSIS

Recommendation

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.

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 INFORMATION | | method | limit/base | current | history1 | history2 |
|--------------------|-------------|-------------|------------|--------------------|-------------|----------|
| Sample Number | Client Info | | | KC129028 | KC122145 | --- |
| Sample Date | Client Info | | | 19 Apr 2024 | 27 Nov 2023 | --- |
| Machine Age | hrs | Client Info | | 6468 | 3000 | --- |
| Oil Age | hrs | Client Info | | 3100 | 0 | --- |
| Oil Changed | Client Info | | | Changed | N/A | --- |
| Sample Status | | | | ABNORMAL | NORMAL | --- |

| WEAR METALS | | method | limit/base | current | history1 | history2 |
|-------------|-----|-------------|------------|--------------|----------|----------|
| Iron | ppm | ASTM D5185m | >50 | <1 | 0 | --- |
| Chromium | ppm | ASTM D5185m | >10 | <1 | 0 | --- |
| Nickel | ppm | ASTM D5185m | >3 | <1 | 0 | --- |
| Titanium | ppm | ASTM D5185m | >3 | <1 | <1 | --- |
| Silver | ppm | ASTM D5185m | >2 | 0 | 0 | --- |
| Aluminum | ppm | ASTM D5185m | >10 | 2 | 1 | --- |
| Lead | ppm | ASTM D5185m | >10 | <1 | 0 | --- |
| Copper | ppm | ASTM D5185m | >50 | 7 | 15 | --- |
| Tin | ppm | ASTM D5185m | >10 | <1 | 0 | --- |
| Vanadium | ppm | ASTM D5185m | | 0 | 0 | --- |
| Cadmium | ppm | ASTM D5185m | | <1 | 0 | --- |

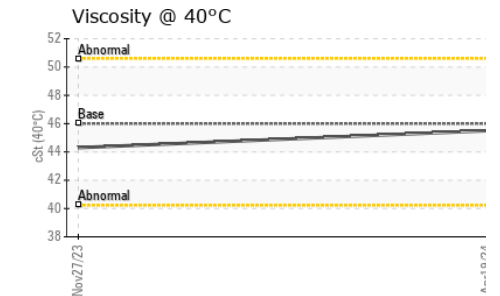
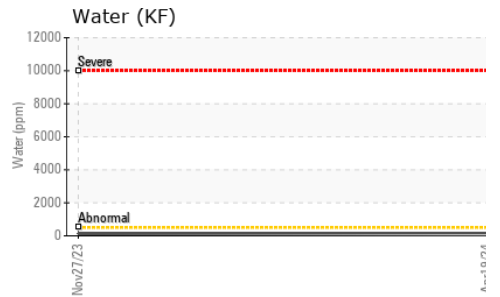
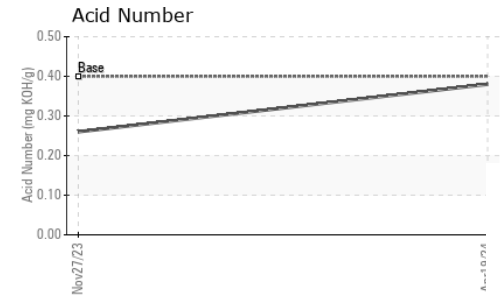
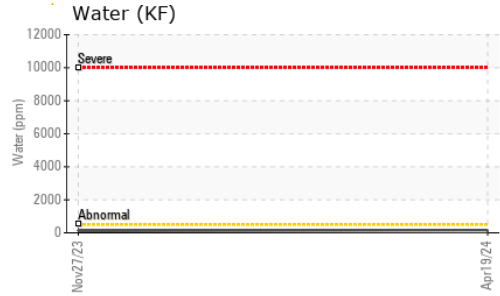
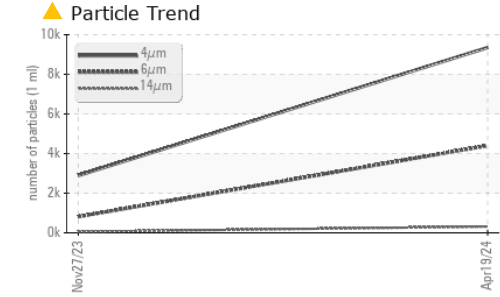
| ADDITIVES | | method | limit/base | current | history1 | history2 |
|------------|-----|-------------|------------|--------------|----------|----------|
| Boron | ppm | ASTM D5185m | | 0 | 0 | --- |
| Barium | ppm | ASTM D5185m | 90 | 0 | 0 | --- |
| Molybdenum | ppm | ASTM D5185m | | <1 | 0 | --- |
| Manganese | ppm | ASTM D5185m | | <1 | 0 | --- |
| Magnesium | ppm | ASTM D5185m | 90 | 2 | 2 | --- |
| Calcium | ppm | ASTM D5185m | 2 | 3 | 0 | --- |
| Phosphorus | ppm | ASTM D5185m | | 3 | 15 | --- |
| Zinc | ppm | ASTM D5185m | | 6 | 0 | --- |

| CONTAMINANTS | | method | limit/base | current | history1 | history2 |
|--------------|-----|-------------|------------|--------------|----------|----------|
| Silicon | ppm | ASTM D5185m | >25 | 2 | 0 | --- |
| Sodium | ppm | ASTM D5185m | | 0 | 0 | --- |
| Potassium | ppm | ASTM D5185m | >20 | <1 | 2 | --- |
| Water | % | ASTM D6304 | >0.05 | 0.009 | 0.014 | --- |
| ppm Water | ppm | ASTM D6304 | >500 | 92 | 143 | --- |

| FLUID CLEANLINESS | | method | limit/base | current | history1 | history2 |
|-------------------|--|--------------|------------|-------------------|----------|----------|
| Particles >4µm | | ASTM D7647 | | 9353 | 2890 | --- |
| Particles >6µm | | ASTM D7647 | >1300 | ▲ 4400 | 815 | --- |
| Particles >14µm | | ASTM D7647 | >80 | ▲ 315 | 52 | --- |
| Particles >21µm | | ASTM D7647 | >20 | ▲ 54 | 13 | --- |
| Particles >38µm | | ASTM D7647 | >4 | 1 | 0 | --- |
| Particles >71µm | | ASTM D7647 | >3 | 0 | 0 | --- |
| Oil Cleanliness | | ISO 4406 (c) | >--/17/13 | ▲ 20/19/15 | 19/17/13 | --- |

| FLUID DEGRADATION | | method | limit/base | current | history1 | history2 |
|-------------------|----------|------------|------------|-------------|----------|----------|
| Acid Number (AN) | mg KOH/g | ASTM D8045 | 0.4 | 0.38 | 0.26 | --- |

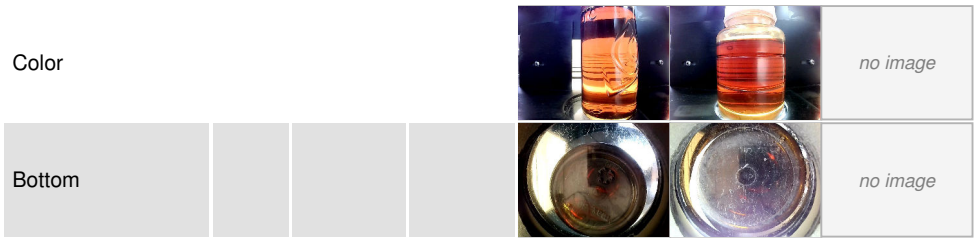
OIL ANALYSIS REPORT



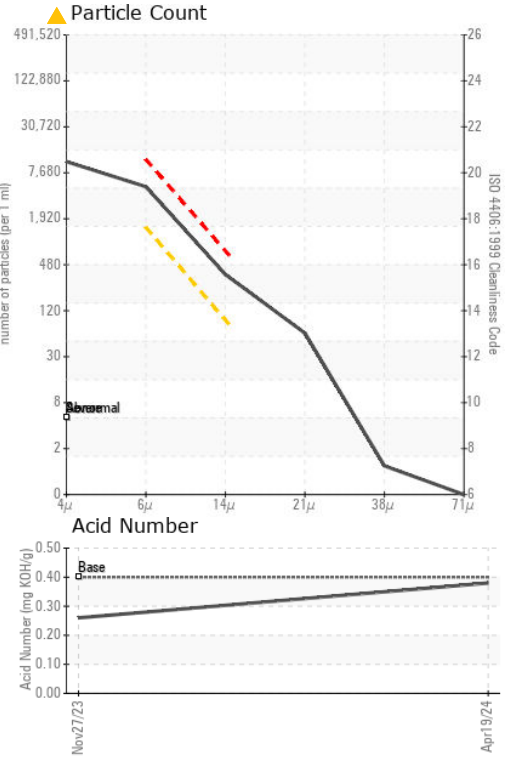
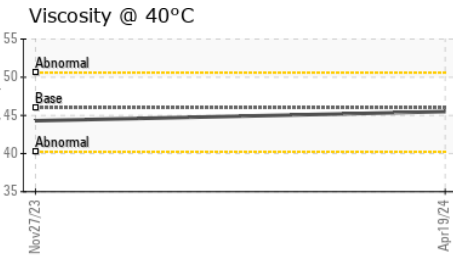
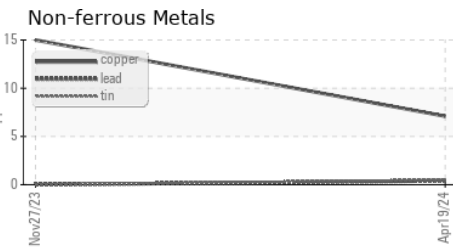
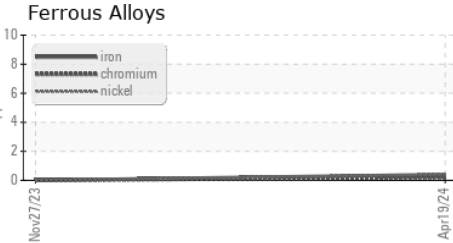
| PARAMETER | method | limit/base | current | history1 | history2 |
|------------------|--------|------------|---------|----------|----------|
| White Metal | scalar | *Visual | NONE | NONE | LIGHT |
| Yellow Metal | scalar | *Visual | NONE | NONE | NONE |
| Precipitate | scalar | *Visual | NONE | NONE | 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 | 46 | 45.5 | 44.3 |

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



GRAPHS



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : KC129028
Lab Number : 06158460
Unique Number : 10993883
Test Package : IND 2
Received : 23 Apr 2024
Tested : 25 Apr 2024
Diagnosed : 25 Apr 2024 - Angela Borella

HEMSARTH DAIRY LLC
 112 HEMSARTH RD
 MILLVILLE, PA
 US 17846
 Contact: HEMSARTH DAIRY
 hemsarthdairyllc@gmail.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)