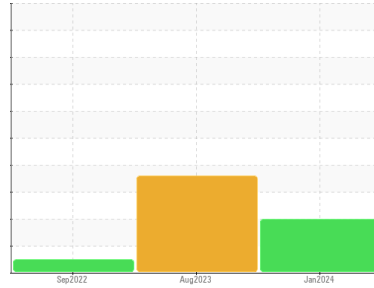




OIL ANALYSIS REPORT

Sample Rating Trend



ISO



Machine Id
KAESER DSD 150 7560476 (S/N 1133)

Component
Compressor

Fluid
KAESER SIGMA (OEM) S-460 (--- QTS)

DIAGNOSIS

▲ Recommendation

We recommend you service the filters on this component. 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 | | | KC104726 | KC05930900 | KC95120 |
| Sample Date | Client Info | | | 05 Jan 2024 | 11 Aug 2023 | 16 Sep 2022 |
| Machine Age | hrs | Client Info | | 7659 | 6802 | 4682 |
| Oil Age | hrs | Client Info | | 857 | 0 | 1049 |
| Oil Changed | Client Info | | | Not Chngd | N/A | Changed |
| Sample Status | | | | ABNORMAL | ABNORMAL | NORMAL |

| WEAR METALS | | method | limit/base | current | history1 | history2 |
|-------------|-----|-------------|------------|--------------|----------|----------|
| Iron | ppm | ASTM D5185m | >50 | <1 | 0 | <1 |
| Chromium | ppm | ASTM D5185m | >10 | 0 | 0 | 0 |
| Nickel | ppm | ASTM D5185m | >3 | 0 | 0 | 0 |
| Titanium | ppm | ASTM D5185m | >3 | <1 | <1 | 0 |
| Silver | ppm | ASTM D5185m | >2 | 0 | 0 | 0 |
| Aluminum | ppm | ASTM D5185m | >10 | 2 | <1 | 2 |
| Lead | ppm | ASTM D5185m | >10 | <1 | 0 | 0 |
| Copper | ppm | ASTM D5185m | >50 | 2 | 4 | 5 |
| Tin | ppm | ASTM D5185m | >10 | <1 | <1 | <1 |
| Vanadium | ppm | ASTM D5185m | | 0 | <1 | 0 |
| Cadmium | ppm | ASTM D5185m | | 0 | 0 | 0 |

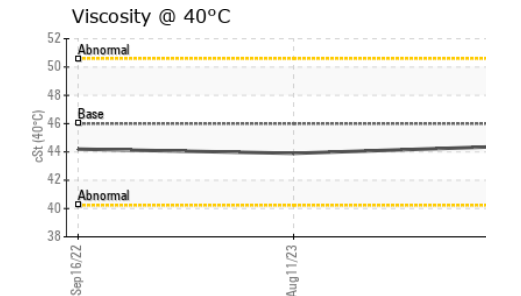
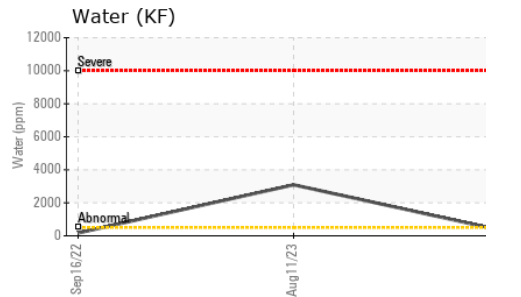
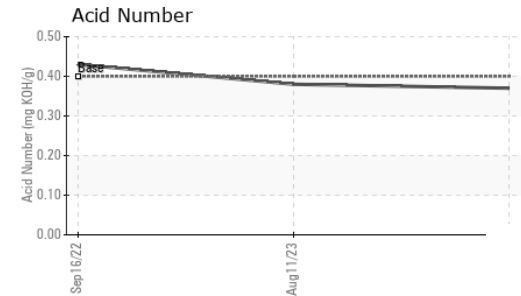
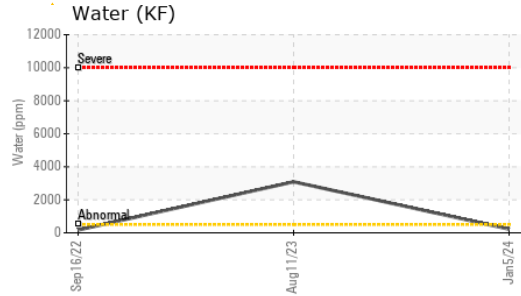
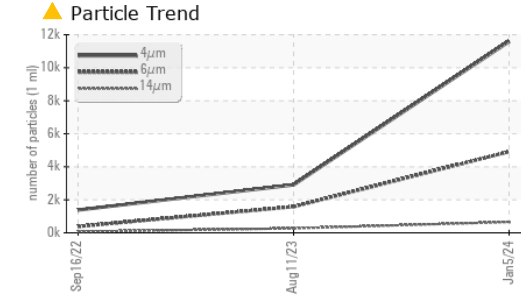
| ADDITIVES | | method | limit/base | current | history1 | history2 |
|------------|-----|-------------|------------|--------------|----------|----------|
| Boron | ppm | ASTM D5185m | | 0 | 0 | 0 |
| Barium | ppm | ASTM D5185m | 90 | 15 | 11 | 0 |
| Molybdenum | ppm | ASTM D5185m | | <1 | 0 | 0 |
| Manganese | ppm | ASTM D5185m | | <1 | <1 | <1 |
| Magnesium | ppm | ASTM D5185m | 90 | 58 | 36 | 25 |
| Calcium | ppm | ASTM D5185m | 2 | 2 | <1 | 0 |
| Phosphorus | ppm | ASTM D5185m | | 9 | 3 | <1 |
| Zinc | ppm | ASTM D5185m | | 0 | 7 | 20 |

| CONTAMINANTS | | method | limit/base | current | history1 | history2 |
|--------------|-----|-------------|------------|--------------|----------|----------|
| Silicon | ppm | ASTM D5185m | >25 | 0 | <1 | 0 |
| Sodium | ppm | ASTM D5185m | | 17 | 6 | 11 |
| Potassium | ppm | ASTM D5185m | >20 | 10 | 2 | 11 |
| Water | % | ASTM D6304 | >0.05 | 0.022 | ▲ 0.309 | 0.016 |
| ppm Water | ppm | ASTM D6304 | >500 | 223 | ▲ 3090 | 169.3 |

| FLUID CLEANLINESS | | method | limit/base | current | history1 | history2 |
|-------------------|--|--------------|------------|-------------------|------------|----------|
| Particles >4µm | | ASTM D7647 | | 11590 | 2906 | 1383 |
| Particles >6µm | | ASTM D7647 | >1300 | ▲ 4916 | ▲ 1583 | 384 |
| Particles >14µm | | ASTM D7647 | >80 | ▲ 654 | ▲ 269 | 69 |
| Particles >21µm | | ASTM D7647 | >20 | ▲ 199 | ▲ 91 | 25 |
| Particles >38µm | | ASTM D7647 | >4 | ▲ 8 | ▲ 14 | 1 |
| Particles >71µm | | ASTM D7647 | >3 | ▲ 1 | 1 | 0 |
| Oil Cleanliness | | ISO 4406 (c) | >--/17/13 | ▲ 21/19/17 | ▲ 19/18/15 | 18/16/13 |

| FLUID DEGRADATION | | method | limit/base | current | history1 | history2 |
|-------------------|----------|------------|------------|-------------|----------|----------|
| Acid Number (AN) | mg KOH/g | ASTM D8045 | 0.4 | 0.37 | 0.38 | 0.43 |

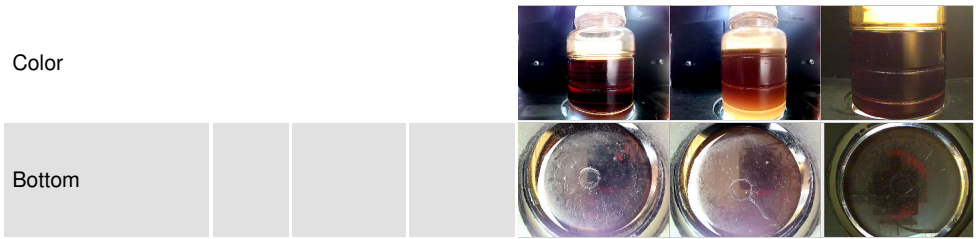
OIL ANALYSIS REPORT



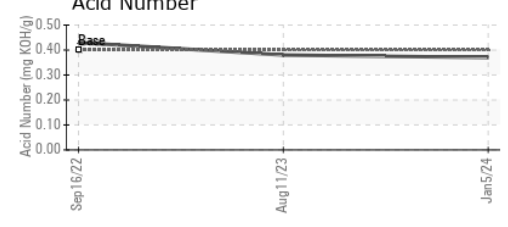
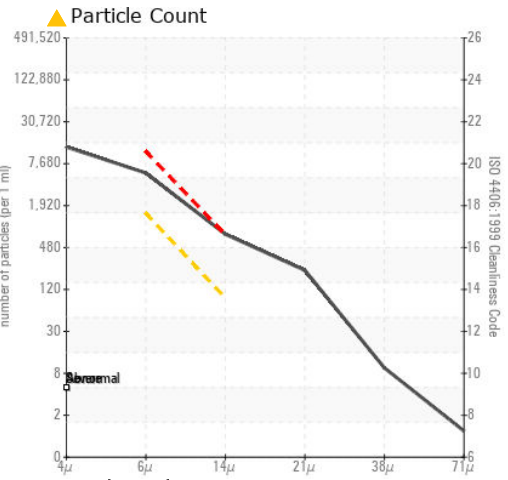
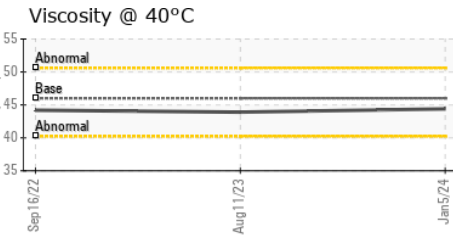
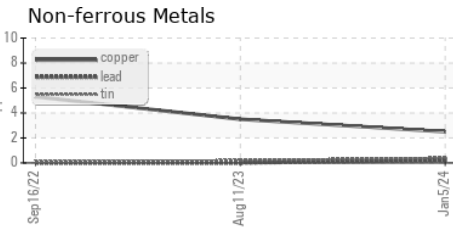
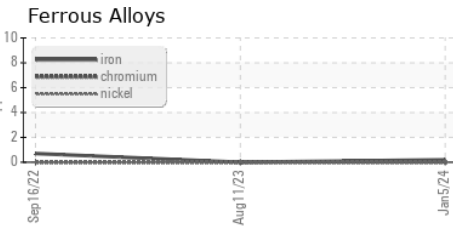
| VISUAL | method | limit/base | current | history1 | history2 | |
|------------------|--------|------------|---------|--------------|----------|-------|
| White Metal | scalar | *Visual | NONE | LIGHT | NONE | NONE |
| Yellow Metal | scalar | *Visual | NONE | NONE | NONE | NONE |
| Precipitate | scalar | *Visual | NONE | NONE | NONE | NONE |
| Silt | scalar | *Visual | NONE | NONE | NONE | NONE |
| Debris | scalar | *Visual | NONE | NONE | NONE | NONE |
| 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 | 0.2% | NEG |
| Free Water | scalar | *Visual | | NEG | NEG | NEG |

| FLUID PROPERTIES | method | limit/base | current | history1 | history2 |
|------------------|--------|--------------|-------------|----------|----------|
| Visc @ 40°C | cSt | ASTM D445 46 | 44.4 | 43.9 | 44.2 |

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



GRAPHS



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : KC104726 **Received** : 11 Jan 2024
Lab Number : **06058098** **Diagnosed** : 16 Jan 2024
Unique Number : 10829480 **Diagnostician** : Jonathan Hester
Test Package : IND 2

WHEELAND LUMBER COMPANY INC
 3558 WILLIAMSON TR
 LIBERTY, PA
 US 16930
 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)

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F: