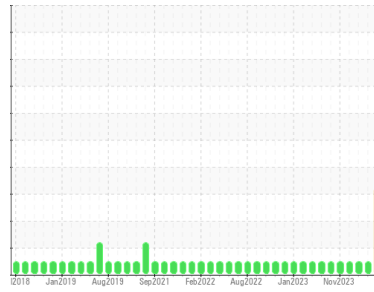




PROBLEM SUMMARY

Area
DF8
 Machine Id
KAESER 4011 - NESTLE PURINA PET CARE (S/N 1028)
 Component
Compressor

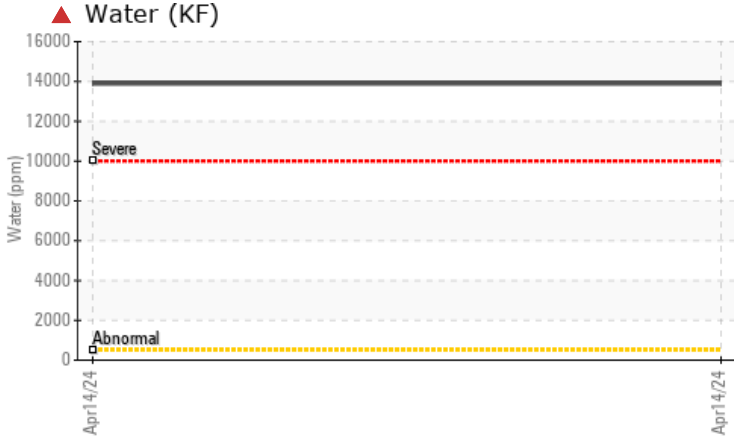
Sample Rating Trend



WATER



COMPONENT CONDITION SUMMARY



RECOMMENDATION

We advise that you follow the water drain-off procedure for this component. We recommend an early resample to monitor this condition.

PROBLEMATIC TEST RESULTS

| Sample Status | | | | SEVERE | NORMAL | NORMAL |
|---------------|-----|------------|-------|---------|--------|--------|
| Water | % | ASTM D6304 | >0.05 | ▲ 1.39 | --- | --- |
| ppm Water | ppm | ASTM D6304 | >500 | ▲ 13900 | --- | --- |

Customer Id: UCDELCD
 Sample No.: UDI06156145
 Lab Number: 06156145
 Test Package: IND 2



To manage this report scan the QR code

To discuss the diagnosis or test data:
 Jonathan Hester +1 919-379-4092 x4092
jhester@wearcheckusa.com

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

RECOMMENDED ACTIONS

| Action | Status | Date | Done By | Description |
|-----------------|--------|------|---------|---|
| Water Drain-off | --- | --- | ? | We advise that you follow the water drain-off procedure for this component. |
| Resample | --- | --- | ? | We recommend an early resample to monitor this condition. |

HISTORICAL DIAGNOSIS

NORMAL



25 Mar 2024 Diag: Don Baldrige

Resample at the next service interval to monitor. All component wear rates are normal. There is no indication of any contamination in the oil. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

view report



NORMAL



26 Feb 2024 Diag: Doug Bogart

Resample at the next service interval to monitor. All component wear rates are normal. There is no indication of any contamination in the oil. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

view report



NORMAL



06 Dec 2023 Diag: Don Baldrige

Resample at the next service interval to monitor. All component wear rates are normal. There is no indication of any contamination in the oil. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

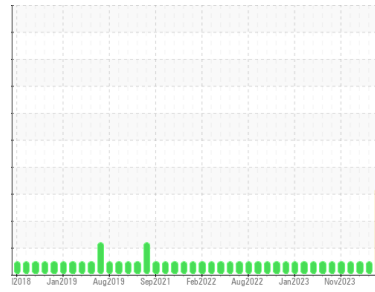
view report





OIL ANALYSIS REPORT

Sample Rating Trend



WATER



Area

DF8

Machine Id
KAESER 4011 - NESTLE PURINA PET CARE (S/N 1028)

Component

Compressor

DIAGNOSIS

▲ Recommendation

We advise that you follow the water drain-off procedure for this component. We recommend an early resample to monitor this condition.

Wear

All component wear rates are normal.

▲ Contamination

There is a high concentration of water present in the oil.

Fluid Condition

The AN level is acceptable for this fluid.

SAMPLE INFORMATION

| | method | limit/base | current | history1 | history2 |
|---------------|-------------|-------------|--------------------|-------------|-------------|
| Sample Number | Client Info | | UDI06156145 | UDI06129474 | WC06101067 |
| Sample Date | Client Info | | 14 Apr 2024 | 25 Mar 2024 | 26 Feb 2024 |
| Machine Age | hrs | Client Info | 143600 | 0 | 142984 |
| Oil Age | hrs | Client Info | 3905 | 3550 | 3290 |
| Oil Changed | Client Info | | Not Changed | Not Changed | Not Changed |
| Sample Status | | | SEVERE | NORMAL | NORMAL |

WEAR METALS

| | method | limit/base | current | history1 | history2 |
|----------|--------|-----------------|--------------|----------|----------|
| Iron | ppm | ASTM D5185m >50 | <1 | <1 | 0 |
| Chromium | ppm | ASTM D5185m >10 | <1 | <1 | <1 |
| Nickel | ppm | ASTM D5185m >3 | <1 | <1 | 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 | 0 | <1 | 0 |
| Copper | ppm | ASTM D5185m >50 | 1 | 1 | <1 |
| Tin | ppm | ASTM D5185m >10 | <1 | <1 | 0 |
| Vanadium | ppm | ASTM D5185m | <1 | <1 | 0 |
| Cadmium | ppm | ASTM D5185m | <1 | <1 | 0 |

ADDITIVES

| | method | limit/base | current | history1 | history2 |
|------------|--------|-----------------|--------------|----------|----------|
| Boron | ppm | ASTM D5185m 1 | 0 | 0 | 0 |
| Barium | ppm | ASTM D5185m 0.3 | <1 | <1 | 8 |
| Molybdenum | ppm | ASTM D5185m 0 | <1 | <1 | 0 |
| Manganese | ppm | ASTM D5185m 0 | 0 | <1 | 0 |
| Magnesium | ppm | ASTM D5185m 0 | <1 | <1 | <1 |
| Calcium | ppm | ASTM D5185m 0.5 | <1 | 3 | 0 |
| Phosphorus | ppm | ASTM D5185m 536 | 144 | 101 | 92 |
| Zinc | ppm | ASTM D5185m 0.2 | 37 | 3 | 1 |
| Sulfur | ppm | ASTM D5185m 649 | 695 | 290 | 266 |

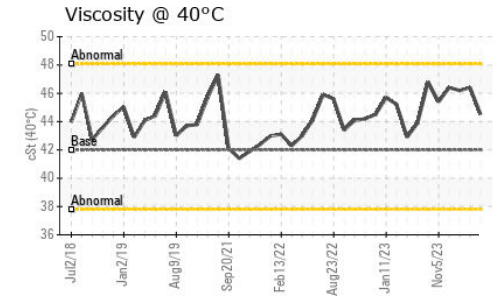
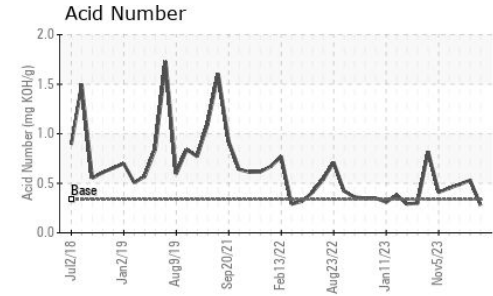
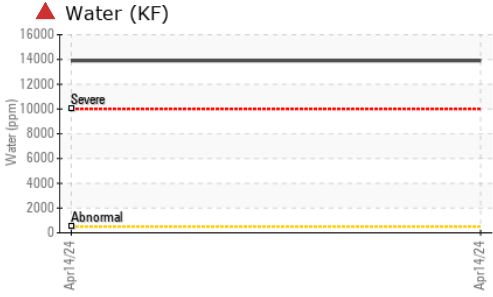
CONTAMINANTS

| | method | limit/base | current | history1 | history2 |
|-----------|--------|------------------|----------------|----------|----------|
| Silicon | ppm | ASTM D5185m >25 | <1 | 1 | 0 |
| Sodium | ppm | ASTM D5185m | 0 | 0 | 0 |
| Potassium | ppm | ASTM D5185m >20 | 1 | 1 | 1 |
| Water | % | ASTM D6304 >0.05 | ▲ 1.39 | --- | --- |
| ppm Water | ppm | ASTM D6304 >500 | ▲ 13900 | --- | --- |

FLUID DEGRADATION

| | method | limit/base | current | history1 | history2 |
|------------------|----------|------------------|-------------|----------|----------|
| Acid Number (AN) | mg KOH/g | ASTM D8045 0.337 | 0.28 | 0.53 | 0.49 |

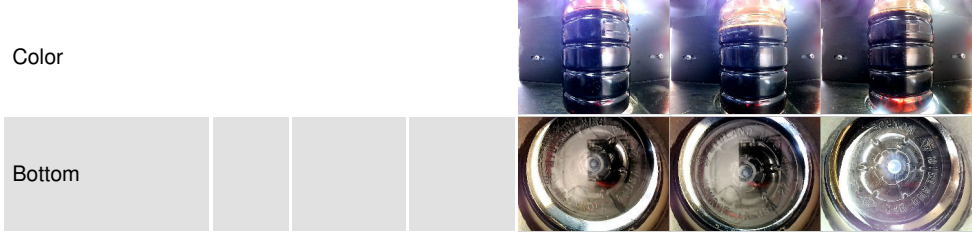
OIL ANALYSIS REPORT



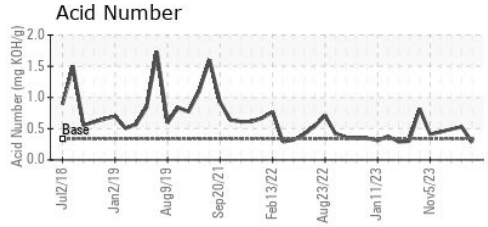
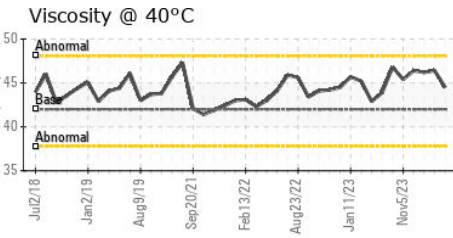
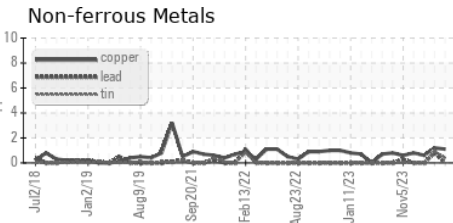
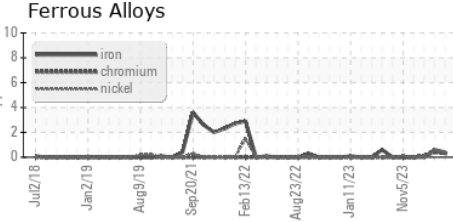
| VISUAL | method | limit/base | current | history1 | history2 |
|------------------|--------|------------|---------|----------|----------|
| White Metal | scalar | *Visual | NONE | NONE | NONE |
| Yellow Metal | scalar | *Visual | NONE | NONE | NONE |
| Precipitate | scalar | *Visual | NONE | NONE | 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 | 42.0 | 44.5 | 46.4 | 46.2 |

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



GRAPHS



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : UDI06156145 **Received** : 22 Apr 2024
Lab Number : **06156145** **Tested** : 23 Apr 2024
Unique Number : 10991568 **Diagnosed** : 24 Apr 2024 - Jonathan Hester
Test Package : IND 2 (Additional Tests: KF)

DELTA INDUSTRIES - CEDAR RAPIDS
 6540 4TH ST SW UNIT A
 CEDAR RAPIDS, IA
 US 52404
 Contact: MICHAEL FERRIS
 wearcheck@deltaind.net

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)