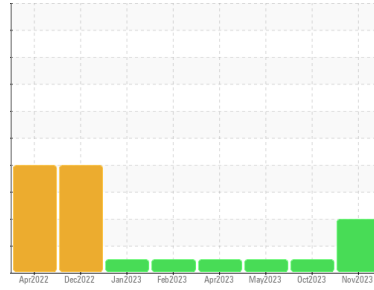




PROBLEM SUMMARY

Area
DF8 [1082]
 Machine Id
KAESER 690 - NESTLE PURINA (S/N 1053)
 Component
Compressor

Sample Rating Trend

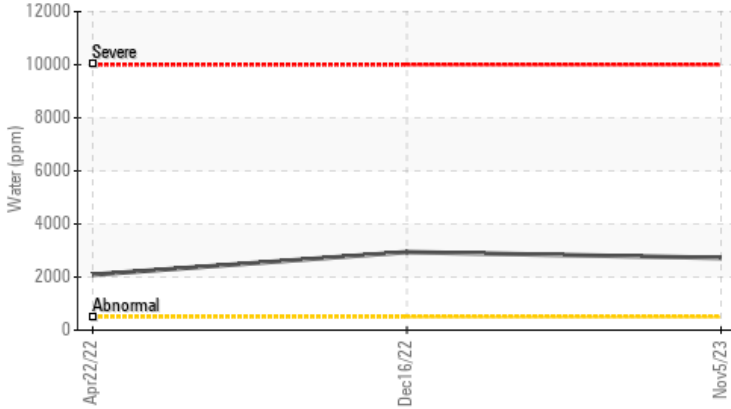


WATER



COMPONENT CONDITION SUMMARY

▲ Water (KF)



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 | | | | ABNORMAL | NORMAL | NORMAL |
|---------------|--------|------------|-------|----------------|--------|--------|
| Water | % | ASTM D6304 | >0.05 | ▲ 0.272 | --- | --- |
| ppm Water | ppm | ASTM D6304 | >500 | ▲ 2720 | --- | --- |
| Debris | scalar | *Visual | NONE | ▲ MODER | NONE | NONE |

Customer Id: UCDELCD
 Sample No.: UCH05999148
 Lab Number: 05999148
 Test Package: IND 2



To manage this report scan the QR code

To discuss the diagnosis or test data:
 Angela Borella +1 800-237-1369
angela.borella@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

08 Oct 2023 Diag: Doug Bogart

NORMAL



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](#)



01 May 2023 Diag: Angela Borella

NORMAL



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](#)



03 Apr 2023 Diag: Doug Bogart

NORMAL



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.

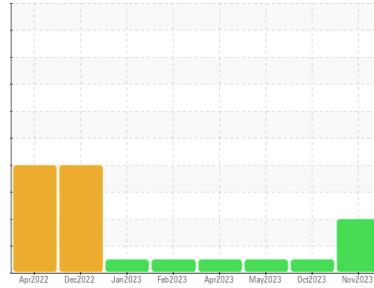
[view report](#)





OIL ANALYSIS REPORT

Sample Rating Trend



WATER



Area
DF8 [1082]
 Machine Id
KAESER 690 - NESTLE PURINA (S/N 1053)
 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 light concentration of water present in the oil. Moderate concentration of visible dirt/debris present in the oil.

Fluid Condition

The AN level is acceptable for this fluid. The condition of the oil is acceptable for the time in service.

SAMPLE INFORMATION

| | method | limit/base | current | history1 | history2 |
|---------------|-------------|-------------|--------------------|-------------|-------------|
| Sample Number | Client Info | | UCH05999148 | UCH05973721 | UCH05842699 |
| Sample Date | Client Info | | 05 Nov 2023 | 08 Oct 2023 | 01 May 2023 |
| Machine Age | hrs | Client Info | 5565 | 3461 | 3760 |
| Oil Age | hrs | Client Info | 3807 | 0 | 1002 |
| Oil Changed | Client Info | | N/A | Not Changd | N/A |
| Sample Status | | | ABNORMAL | NORMAL | NORMAL |

WEAR METALS

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

ADDITIVES

| | method | limit/base | current | history1 | history2 |
|------------|--------|-----------------|---------|----------|----------|
| Boron | ppm | ASTM D5185m 1 | 0 | 0 | 0 |
| Barium | ppm | ASTM D5185m 0.3 | 2 | <1 | 0 |
| Molybdenum | ppm | ASTM D5185m 0 | <1 | 0 | 0 |
| Manganese | ppm | ASTM D5185m 0 | 0 | 0 | 0 |
| Magnesium | ppm | ASTM D5185m 0 | <1 | 0 | 0 |
| Calcium | ppm | ASTM D5185m 0.5 | 0 | 0 | 0 |
| Phosphorus | ppm | ASTM D5185m 536 | 280 | 290 | 304 |
| Zinc | ppm | ASTM D5185m 0.2 | 30 | 17 | 3 |
| Sulfur | ppm | ASTM D5185m 649 | 1589 | 1725 | 1703 |

CONTAMINANTS

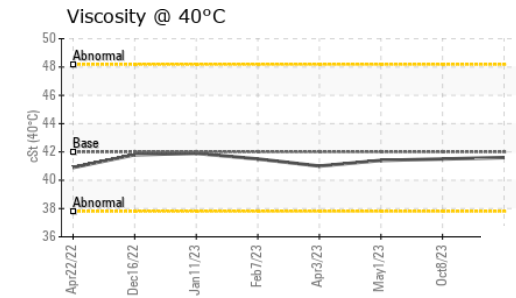
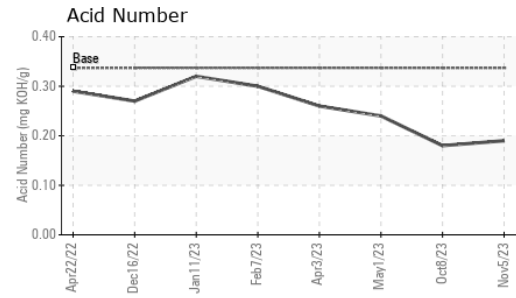
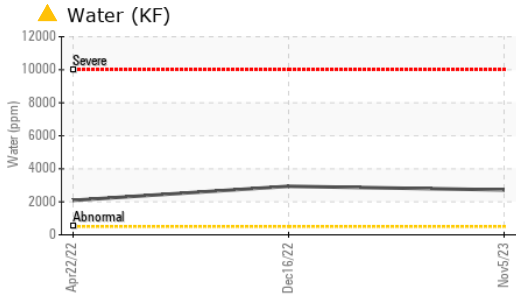
| | method | limit/base | current | history1 | history2 |
|-----------|--------|------------------|---------|----------|----------|
| Silicon | ppm | ASTM D5185m >25 | <1 | <1 | <1 |
| Sodium | ppm | ASTM D5185m | 0 | 0 | 0 |
| Potassium | ppm | ASTM D5185m >20 | 1 | 1 | <1 |
| Water | % | ASTM D6304 >0.05 | ▲ 0.272 | --- | --- |
| ppm Water | ppm | ASTM D6304 >500 | ▲ 2720 | --- | --- |

FLUID DEGRADATION

| | method | limit/base | current | history1 | history2 |
|------------------|----------|------------------|---------|----------|----------|
| Acid Number (AN) | mg KOH/g | ASTM D8045 0.337 | 0.19 | 0.18 | 0.24 |



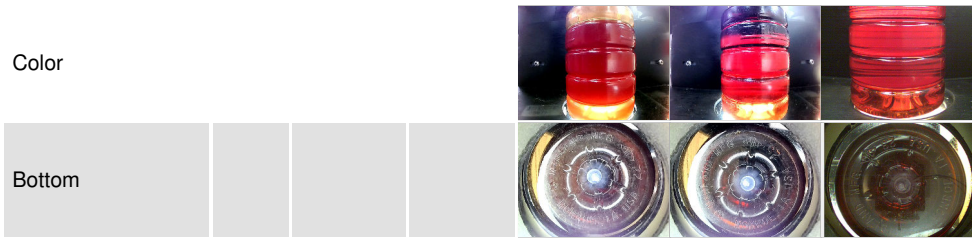
OIL ANALYSIS REPORT



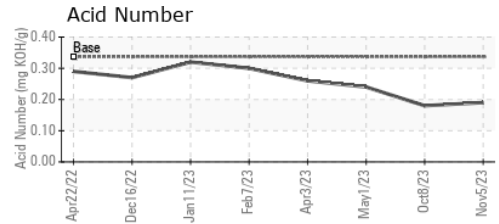
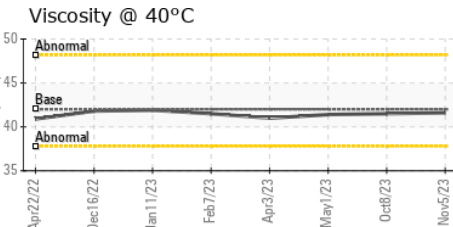
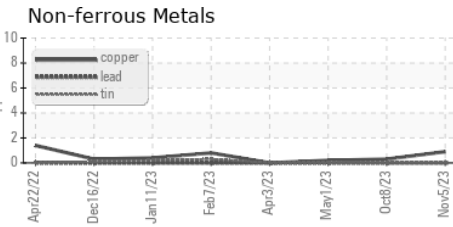
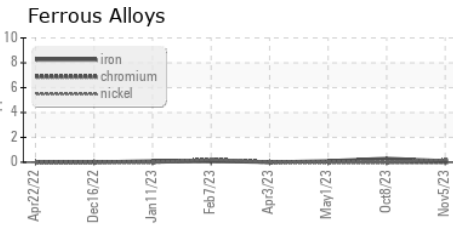
| VISUAL | method | limit/base | current | history1 | history2 |
|------------------|--------|------------|---------|----------|----------|
| White Metal | scalar | *Visual | NONE | NONE | NONE |
| Yellow Metal | scalar | *Visual | NONE | NONE | NONE |
| Precipitate | scalar | *Visual | NONE | NONE | 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 | 0.2% | NEG |
| Free Water | scalar | *Visual | | 1.0 | NEG |

| FLUID PROPERTIES | method | limit/base | current | history1 | history2 |
|------------------|--------|------------|---------|----------|----------|
| Visc @ 40°C | cSt | ASTM D445 | 42.0 | 41.6 | 41.5 |

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



GRAPHS



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : UCH05999148 **Received** : 06 Nov 2023
Lab Number : 05999148 **Diagnosed** : 07 Nov 2023
Unique Number : 10727508 **Diagnostician** : Angela Borella
Test Package : IND 2 (Additional Tests: KF)

DELTA INDUSTRIES - CEDAR RAPIDS
 6540 4TH ST SW
 CEDAR RAPIDS, IA
 US 52404
 Contact: MICHAEL FERRIS
 wearcheck@deltaind.net
 T: (319)862-2500
 F: (319)862-2501

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)