

OIL ANALYSIS REPORT

Machine Id KAESER 1012 - HUGHES NETWORK SYSTEMS

Compressor

DIAGNOSIS

Recommendation

Resample at the next service interval to monitor.

Wear

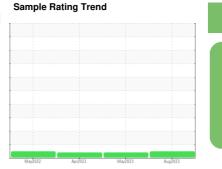
All component wear rates are normal.

Contamination

There is no indication of any contamination in the oil.

Fluid Condition

The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.





NORMAL

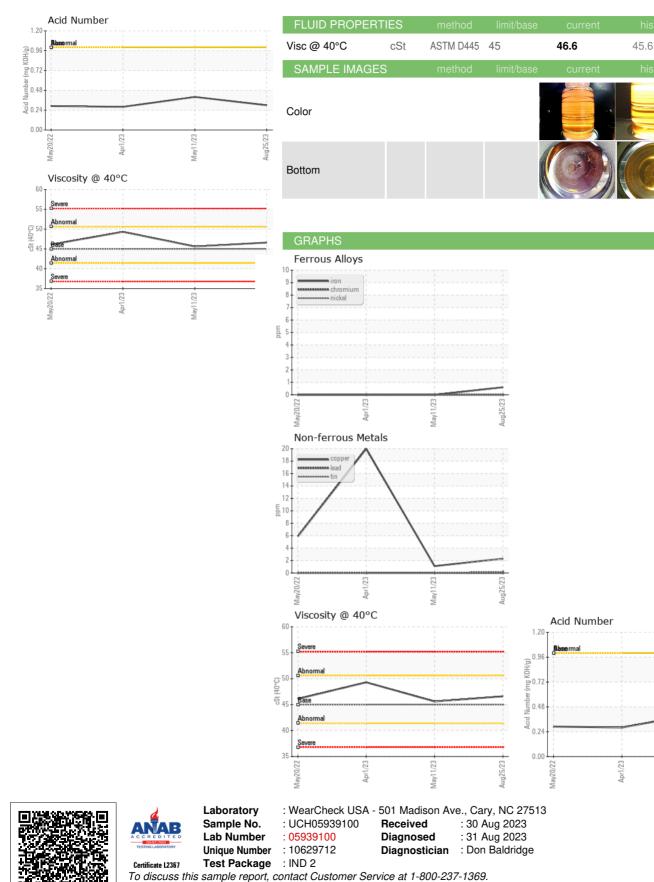
| SAMPLE INFORM | IATION | method | limit/base | current | history1 | history2 |
|------------------|----------|-------------|------------|-------------|-------------|-------------|
| Sample Number | | Client Info | | UCH05939100 | UCH05848706 | UCH05811051 |
| Sample Date | | Client Info | | 25 Aug 2023 | 11 May 2023 | 01 Apr 2023 |
| Machine Age | hrs | Client Info | | 13368 | 12137 | 0 |
| Oil Age | hrs | Client Info | | 1231 | 1 | 2310 |
| Oil Changed | | Client Info | | Not Changd | Changed | Not Changd |
| Sample Status | | | | NORMAL | ABNORMAL | ABNORMAL |
| WEAR METALS | | method | limit/base | current | history1 | history2 |
| Iron | ppm | ASTM D5185m | >50 | <1 | 0 | 0 |
| Chromium | ppm | ASTM D5185m | >10 | 0 | 0 | 0 |
| Nickel | ppm | ASTM D5185m | >3 | 0 | 0 | 0 |
| Titanium | ppm | ASTM D5185m | >3 | 0 | 0 | 0 |
| Silver | ppm | ASTM D5185m | >2 | 0 | 0 | <1 |
| Aluminum | ppm | ASTM D5185m | >10 | <1 | 0 | 0 |
| Lead | ppm | ASTM D5185m | >10 | 0 | 0 | 0 |
| Copper | ppm | ASTM D5185m | >50 | 2 | 1 | 20 |
| Tin | ppm | ASTM D5185m | >10 | <1 | 0 | 0 |
| Vanadium | ppm | ASTM D5185m | | 0 | 0 | 0 |
| Cadmium | ppm | ASTM D5185m | | 0 | 0 | 0 |
| ADDITIVES | | method | limit/base | current | history1 | history2 |
| Boron | ppm | ASTM D5185m | 0 | 0 | 0 | 0 |
| Barium | ppm | ASTM D5185m | 90 | 0 | 75 | 0 |
| Molybdenum | ppm | ASTM D5185m | 0 | 0 | 0 | 0 |
| Manganese | ppm | ASTM D5185m | | 0 | 0 | <1 |
| Magnesium | ppm | ASTM D5185m | 100 | 42 | 73 | 2 |
| Calcium | ppm | ASTM D5185m | 0 | 0 | 9 | 0 |
| Phosphorus | ppm | ASTM D5185m | 0 | 3 | 6 | 8 |
| Zinc | ppm | ASTM D5185m | 0 | 10 | 0 | 14 |
| Sulfur | ppm | ASTM D5185m | 23500 | 21192 | 19647 | 22642 |
| CONTAMINANTS | | method | limit/base | current | history1 | history2 |
| Silicon | ppm | ASTM D5185m | >25 | 1 | 0 | 3 |
| Sodium | ppm | ASTM D5185m | | 8 | 0 | 1 |
| Potassium | ppm | ASTM D5185m | >20 | 3 | 0 | 0 |
| FLUID DEGRADA | TION | method | limit/base | current | history1 | history2 |
| Acid Number (AN) | mg KOH/g | ASTM D8045 | 1.0 | 0.30 | 0.40 | 0.28 |

| VISUAL | | method | limit/base | current | history1 | history2 |
|------------------|--------|---------|------------|---------|----------|----------|
| White Metal | scalar | *Visual | NONE | NONE | 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 | 🔺 MODER | 🔺 HEAVY |
| 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 | NEG | NEG |
| Free Water | scalar | *Visual | | NEG | NEG | NEG |

Contact/Location: JOSH PLITT - UCTATBAL



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* - 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)

TATE ENGINEERING 3921 Vero Road BALTIMORE, MD US 21227 Contact: JOSH PLITT josh.plitt@tate.com T: (443)992-4413 F:

May11/23

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Contact/Location: JOSH PLITT - UCTATBAL

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