



| | |
|-----------------|------------------|
| WEAR | NORMAL |
| CONTAMINATION | ATTENTION |
| FLUID CONDITION | NORMAL |

Area
ACS-32 [409529]
 Machine Id
INGERSOLL RAND FF2723U05265 - HOSOKAWA
 Component
Compressor

RECOMMENDATION

No corrective action is recommended at this time. Resample at the next service interval to monitor.

| Test | UOM | Method | Limit/Abn | Current | History1 | History2 |
|----------------|-----|-------------|-----------|--------------------|-------------|----------|
| Sample Number | | Client Info | | UCH05858129 | UCH05775699 | --- |
| Sample Date | | Client Info | | 28 May 2023 | 16 Feb 2023 | --- |
| Machine Age | hrs | Client Info | | 0 | 40895 | --- |
| Oil Age | hrs | Client Info | | 0 | 245 | --- |
| Filter Age | hrs | Client Info | | 0 | 0 | --- |
| Oil Changed | | Client Info | | N/A | Not Changd | --- |
| Filter Changed | | Client Info | | N/A | N/A | --- |
| Sample Status | | | | ATTENTION | MARGINAL | --- |

WEAR

All component wear rates are normal.

| | | | | | | |
|--------------|--------|-------------|------|--------------|------|-----|
| Iron | ppm | ASTM D5185m | >50 | 0 | 0 | --- |
| Chromium | ppm | ASTM D5185m | >10 | <1 | 0 | --- |
| Nickel | ppm | ASTM D5185m | | <1 | 0 | --- |
| Titanium | ppm | ASTM D5185m | | <1 | 0 | --- |
| Silver | ppm | ASTM D5185m | | <1 | 0 | --- |
| Aluminum | ppm | ASTM D5185m | >25 | 1 | <1 | --- |
| Lead | ppm | ASTM D5185m | >25 | 1 | 0 | --- |
| Copper | ppm | ASTM D5185m | >50 | <1 | 0 | --- |
| Tin | ppm | ASTM D5185m | >15 | 1 | <1 | --- |
| Vanadium | ppm | ASTM D5185m | | <1 | 0 | --- |
| White Metal | scalar | *Visual | NONE | NONE | NONE | --- |
| Yellow Metal | scalar | *Visual | NONE | NONE | NONE | --- |

CONTAMINATION

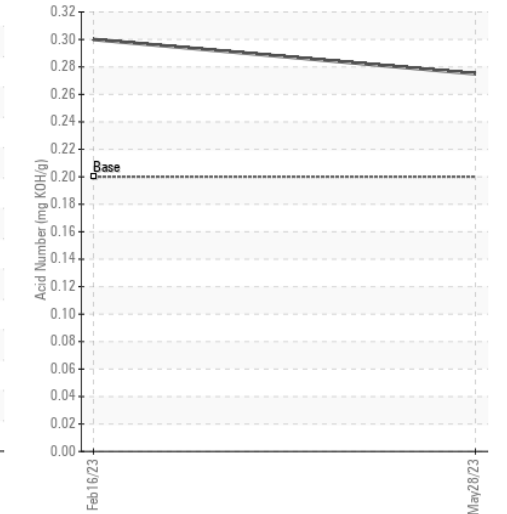
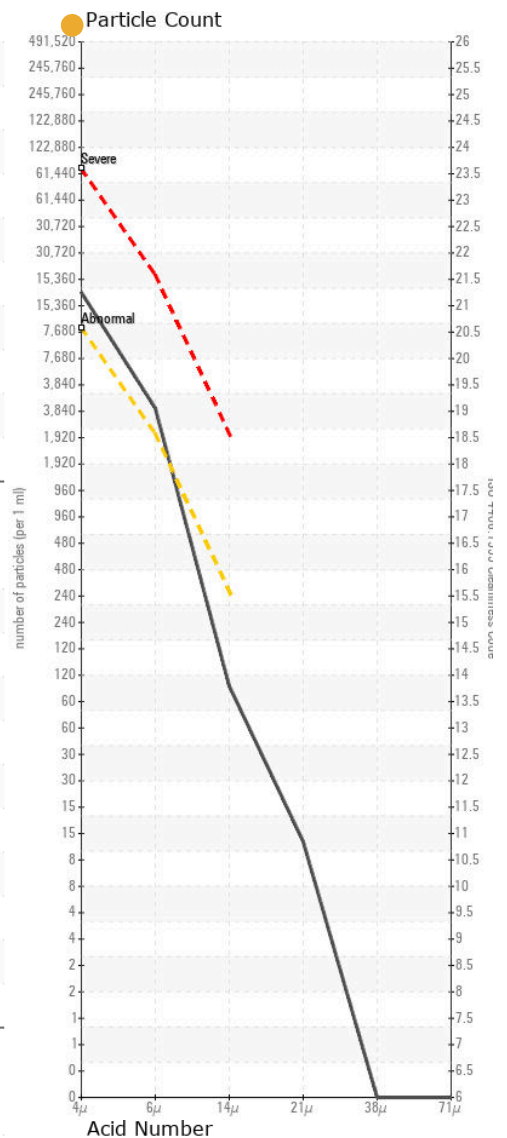
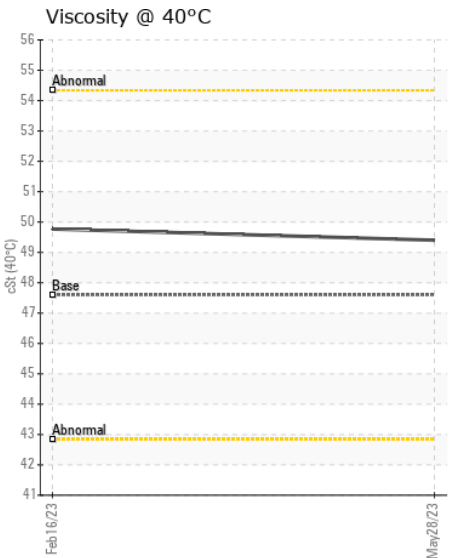
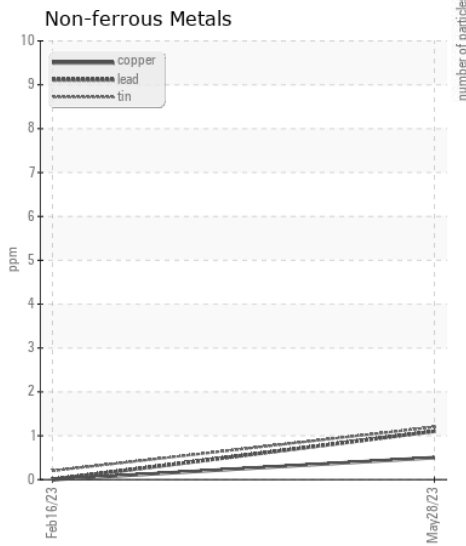
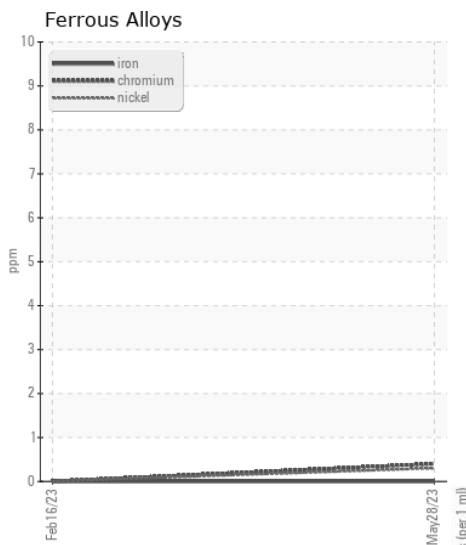
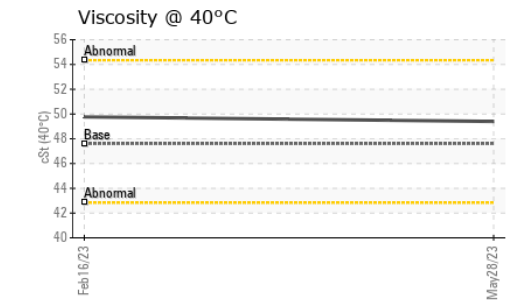
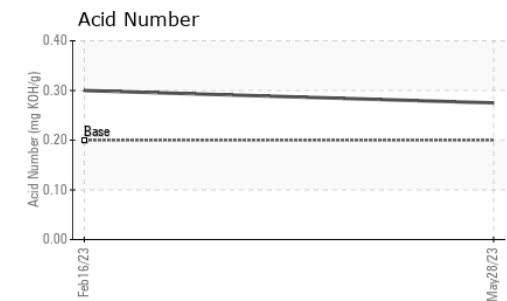
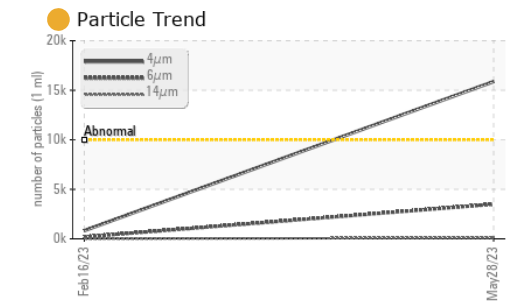
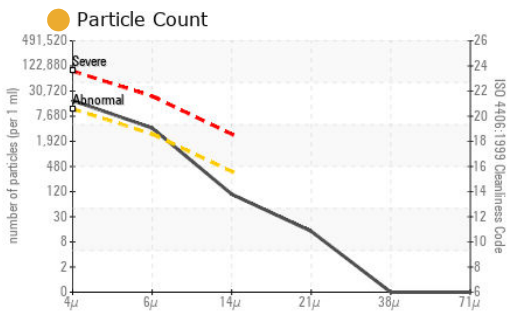
There is a moderate amount of silt (particulates < 14 microns in size) present in the oil.

| | | | | | | |
|------------------|--------|--------------|-----------|-----------------|----------|-----|
| Silicon | ppm | ASTM D5185m | >25 | <1 | 6 | --- |
| Potassium | ppm | ASTM D5185m | >20 | 2 | 4 | --- |
| Water | | WC Method | >0.1 | NEG | NEG | --- |
| Particles >4µm | | ASTM D7647 | >10000 | 15877 | 827 | --- |
| Particles >6µm | | ASTM D7647 | >2500 | 3493 | 194 | --- |
| Particles >14µm | | ASTM D7647 | >320 | 92 | 9 | --- |
| Particles >21µm | | ASTM D7647 | >80 | 12 | 2 | --- |
| Particles >38µm | | ASTM D7647 | >20 | 0 | 0 | --- |
| Particles >71µm | | ASTM D7647 | >4 | 0 | 0 | --- |
| Oil Cleanliness | | ISO 4406 (c) | >20/18/15 | 21/19/14 | 17/15/10 | --- |
| Silt | scalar | *Visual | NONE | NONE | NONE | --- |
| Debris | scalar | *Visual | NONE | LIGHT | NONE | --- |
| Sand/Dirt | scalar | *Visual | NONE | NONE | NONE | --- |
| Appearance | scalar | *Visual | NORML | NORML | NORML | --- |
| Odor | scalar | *Visual | NORML | NORML | NORML | --- |
| Emulsified Water | scalar | *Visual | >0.1 | NEG | NEG | --- |

FLUID CONDITION

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

| | | | | | | |
|------------------|----------|-------------|-------|--------------|-------|-----|
| Sodium | ppm | ASTM D5185m | | 15 | 14 | --- |
| Boron | ppm | ASTM D5185m | 0 | 0 | 0 | --- |
| Barium | ppm | ASTM D5185m | 700 | 449 | 490 | --- |
| Molybdenum | ppm | ASTM D5185m | 0 | <1 | 0 | --- |
| Manganese | ppm | ASTM D5185m | 0 | <1 | 0 | --- |
| Magnesium | ppm | ASTM D5185m | 0 | 4 | <1 | --- |
| Calcium | ppm | ASTM D5185m | 0 | 0 | <1 | --- |
| Phosphorus | ppm | ASTM D5185m | 0 | 14 | 11 | --- |
| Zinc | ppm | ASTM D5185m | 0 | 0 | 0 | --- |
| Sulfur | ppm | ASTM D5185m | 630 | 325 | 390 | --- |
| Acid Number (AN) | mg KOH/g | ASTM D8045 | 0.200 | 0.275 | 0.30 | --- |
| Visc @ 40°C | cSt | ASTM D445 | 47.6 | 49.4 | 49.77 | --- |



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : UCH05858129 **Received** : 26 May 2023
Lab Number : 05858129 **Tested** : 01 Jun 2023
Unique Number : 10492594 **Diagnosed** : 01 Jun 2023 - Doug Bogart
Test Package : IND 2 (Additional Tests: PRTCOUNT)

AIRMATIC COMPRESSOR SYSTEMS
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 US 07072
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 T: (800)864-7621
 F: (201)342-6241

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)