



OIL ANALYSIS REPORT

| | |
|-----------------|-----------------|
| WEAR | NORMAL |
| CONTAMINATION | NORMAL |
| FLUID CONDITION | ABNORMAL |

Area
[2402190138/1]

Machine Id
TRANE Y & S CANDY CHILLER 6 (S/N L95K09769)

Component
Refrigeration Compressor

Fluid
TRANE 0022 (8 GAL)

RECOMMENDATION

Oil and filter change at the time of sampling has been noted. We recommend an early resample to monitor this condition.

WEAR

All component wear rates are normal.

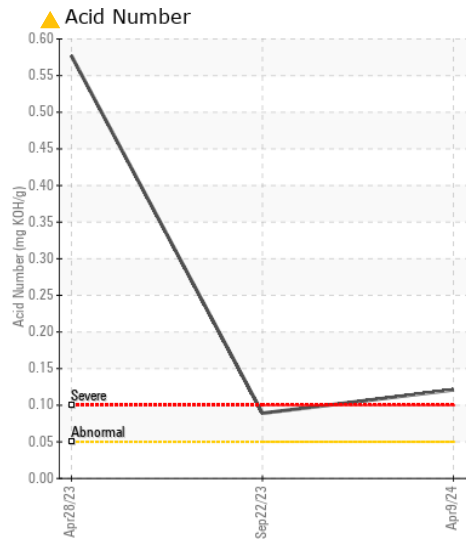
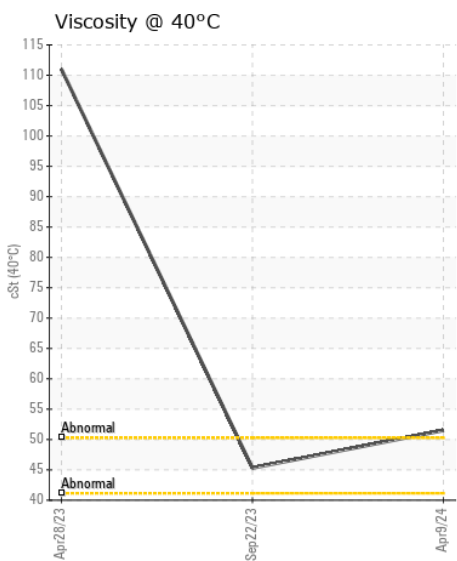
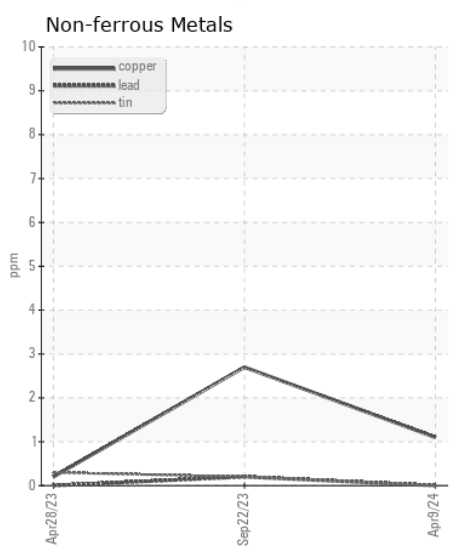
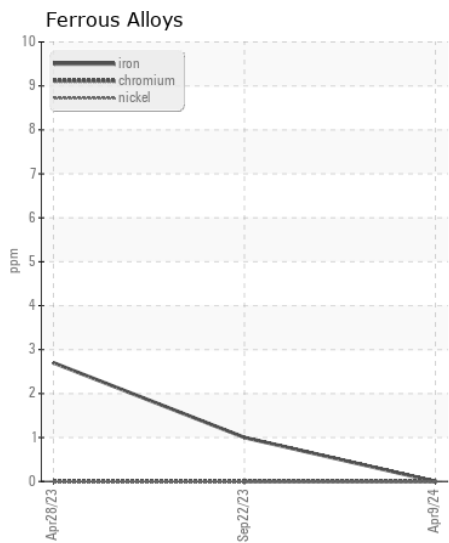
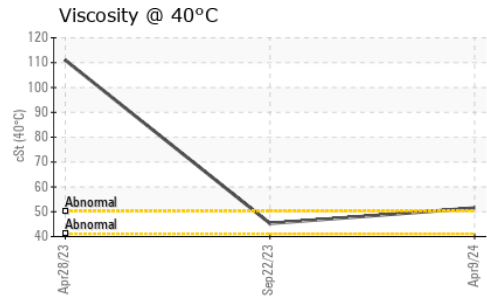
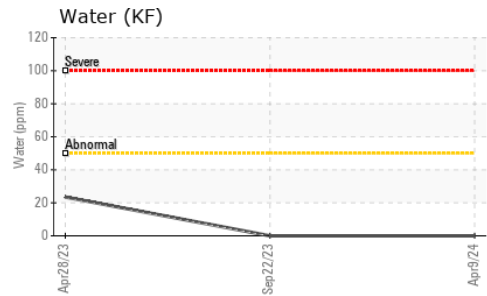
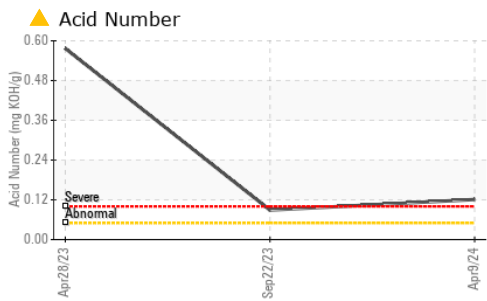
CONTAMINATION

There is no indication of any contamination in the oil.

FLUID CONDITION

The AN level is at the top-end of the recommended limit.

| Test | UOM | Method | Limit/Abn | Current | History1 | History2 |
|------------------|----------|-------------|-----------|--------------------|-------------|-------------|
| Sample Number | | Client Info | | WC0798538 | WC0664534 | WC0664529 |
| Sample Date | | Client Info | | 09 Apr 2024 | 22 Sep 2023 | 28 Apr 2023 |
| Machine Age | hrs | Client Info | | 10704 | 0 | 8358 |
| Oil Age | hrs | Client Info | | 0 | 3 | 0 |
| Filter Age | hrs | Client Info | | 0 | 5 | 0 |
| Oil Changed | | Client Info | | Changed | Changed | N/A |
| Filter Changed | | Client Info | | Changed | Changed | Changed |
| Sample Status | | | | ABNORMAL | ATTENTION | ABNORMAL |
| Iron | ppm | ASTM D5185m | >8 | 0 | 1 | 3 |
| Chromium | ppm | ASTM D5185m | >2 | 0 | 0 | 0 |
| Nickel | ppm | ASTM D5185m | | 0 | 0 | 0 |
| Titanium | ppm | ASTM D5185m | | 0 | 0 | 0 |
| Silver | ppm | ASTM D5185m | >2 | 0 | 0 | 0 |
| Aluminum | ppm | ASTM D5185m | >3 | 0 | 1 | 0 |
| Lead | ppm | ASTM D5185m | >2 | 0 | <1 | 0 |
| Copper | ppm | ASTM D5185m | >8 | 1 | 3 | <1 |
| Tin | ppm | ASTM D5185m | >4 | 0 | <1 | <1 |
| Vanadium | ppm | ASTM D5185m | | <1 | 0 | 0 |
| White Metal | scalar | *Visual | NONE | NONE | NONE | NONE |
| Yellow Metal | scalar | *Visual | NONE | NONE | NONE | NONE |
| Silicon | ppm | ASTM D5185m | >15 | 3 | 4 | 0 |
| Potassium | ppm | ASTM D5185m | >20 | 0 | <1 | <1 |
| Water | % | ASTM D6304 | >0.005 | 0.00 | 0.00 | 0.002 |
| ppm Water | ppm | ASTM D6304 | >50 | 0 | 0.00 | 23.5 |
| 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 | >0.005 | NEG | NEG | NEG |
| Sodium | ppm | ASTM D5185m | | <1 | 0 | 0 |
| Boron | ppm | ASTM D5185m | | 0 | 0 | 0 |
| Barium | ppm | ASTM D5185m | | 0 | 0 | 0 |
| Molybdenum | ppm | ASTM D5185m | | 0 | 0 | 0 |
| Manganese | ppm | ASTM D5185m | | 0 | 0 | 0 |
| Magnesium | ppm | ASTM D5185m | | 0 | <1 | 0 |
| Calcium | ppm | ASTM D5185m | | 0 | 1 | 0 |
| Phosphorus | ppm | ASTM D5185m | | 15 | 2 | <1 |
| Zinc | ppm | ASTM D5185m | | 0 | 0 | 0 |
| Sulfur | ppm | ASTM D5185m | | 0 | 1 | 334 |
| Acid Number (AN) | mg KOH/g | ASTM D974 | | ▲ 0.121 | 0.089 | ▲ 0.577 |
| Visc @ 40°C | cSt | ASTM D445 | | 51.5 | 45.3 | 111 |



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : WC0798538
Lab Number : 06152042
Unique Number : 10982120
Test Package : IND 2
Received : 17 Apr 2024
Tested : 18 Apr 2024
Diagnosed : 22 Apr 2024 - Jonathan Hester

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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)