

OIL ANALYSIS REPORT

Sample Rating Trend





Machine Id **TRANE CFCC SCWHARTZ CIRC 2 (S/N U18C00394)** Component **Refrigeration Compressor** Fluid **TRANE 0048 (1 GAL)**

| DIAGNOSIS | |
|-----------|--|
| | |

Recommendation

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

Wear

All component wear rates are normal.

Contamination

There is a trace of moisture present in the oil.

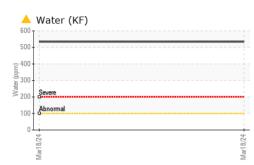
Fluid Condition

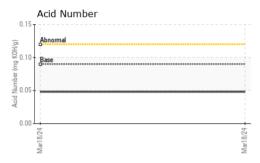
The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

| SAMPLE INFORM | IATION | method | limit/base | current | history1 | history2 |
|---|--|---|--|--|------------------------------|------------------------------|
| Sample Number | | Client Info | | WC06211745 | | |
| Sample Date | | Client Info | | 18 Mar 2024 | | |
| Machine Age | hrs | Client Info | | 0 | | |
| Oil Age | hrs | Client Info | | 0 | | |
| Oil Changed | | Client Info | | N/A | | |
| Sample Status | | | | MARGINAL | | |
| WEAR METALS | | method | limit/base | current | history1 | history2 |
| Iron | ppm | ASTM D5185m | >8 | 9 | | |
| Chromium | ppm | ASTM D5185m | >2 | 0 | | |
| Nickel | ppm | ASTM D5185m | | 0 | | |
| Titanium | ppm | ASTM D5185m | | <1 | | |
| Silver | ppm | ASTM D5185m | >2 | 0 | | |
| Aluminum | ppm | ASTM D5185m | >3 | 0 | | |
| Lead | ppm | ASTM D5185m | >2 | 0 | | |
| Copper | ppm | ASTM D5185m | >8 | <1 | | |
| Tin | ppm | ASTM D5185m | >4 | <1 | | |
| Vanadium | ppm | ASTM D5185m | | <1 | | |
| Cadmium | ppm | ASTM D5185m | | 0 | | |
| | | | | | | |
| ADDITIVES | | method | limit/base | current | history1 | history2 |
| ADDITIVES Boron | ppm | method ASTM D5185m | limit/base | current 0 | history1 | history2 |
| | ppm ppm | | | | | |
| Boron | | ASTM D5185m | 1 | 0 | | |
| Boron Barium | ppm | ASTM D5185m ASTM D5185m | 1 0 | 0 0 | | |
| Boron Barium Molybdenum | ppm ppm | ASTM D5185m ASTM D5185m ASTM D5185m | 1 0 0 | 0 0 0 | | |
| Boron Barium Molybdenum Manganese | ppm ppm ppm | ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m | 1 0 0 0 | 0 0 0 <1 | | |
| Boron Barium Molybdenum Manganese Magnesium | ppm ppm ppm ppm | ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m | 1 0 0 0 0 | 0 0 0 <1 <1 | | |
| Boron Barium Molybdenum Manganese Magnesium Calcium | ppm ppm ppm ppm ppm | ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m | 1 0 0 0 0 0 | 0 0 <1 <1 0 | | |
| Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus | ppm ppm ppm ppm ppm ppm | ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m | 1 0 0 0 0 0 5 | 0 0 <1 <1 0 5 | | |
| Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc | ppm ppm ppm ppm ppm ppm ppm | ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m | 1 0 0 0 0 0 5 0 | 0 0 <1 <1 0 5 <1 | | |
| Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur | ppm ppm ppm ppm ppm ppm ppm | ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m | 1 0 0 0 0 0 5 0 0 10 | 0 0 <1 <1 0 5 <1 0 | | |
| Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS | ppm ppm ppm ppm ppm ppm ppm | ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m | 1 0 0 0 0 0 5 0 10 10 limit/base | 0 0 <1 <1 0 5 <1 0 0 current | history1 | history2 |
| Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon | ppm ppm ppm ppm ppm ppm ppm ppm | ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m method ASTM D5185m | 1 0 0 0 0 0 5 0 10 10 limit/base | 0 0 2 3 3 4 1 0 5 5 3 4 1 0 2 5 4 1 0 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 | history1 | history2 |
| Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium | ppm ppm ppm ppm ppm ppm ppm ppm | ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m method ASTM D5185m ASTM D5185m | 1 0 0 0 0 5 0 10 10 limit/base >15 | 0 0 2 3 3 4 1 0 5 5 3 3 4 1 0 2 0 2 0 2 0 2 0 2 0 2 0 2 3 3 3 3 3 3 | history1 | history2 |
| Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium | ppm ppm ppm ppm ppm ppm ppm ppm ppm ppm | ASTM D5185m ASTM D5185m | 1 0 0 0 0 5 0 10 10 limit/base >15 | 0 0 2 3 3 4 1 0 5 3 3 4 1 0 0 2 0 2 0 2 0 2 0 2 2 1 0 0 2 2 1 2 3 2 3 2 3 3 3 3 3 3 3 3 3 3 3 3 | history1 | history2 |
| Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium Water | ppm ppm ppm ppm ppm ppm ppm ppm ppm ppm | ASTM D5185m ASTM D5185m | 1 0 0 0 0 5 0 10 10 10 10 215 >20 >0.01 | 0 0 0 <1 <1 0 5 <1 0 0 <i>current</i> 8 <1 0 0 <i>current</i> 8 <1 0 0 | history1 | history2 |



OIL ANALYSIS REPORT









VISUAL method limit/base history1 history2 current NONE White Metal *Visual NONE scalar Yellow Metal *Visual NONE NONE scalar Precipitate NONE scalar *Visua NONE Silt scalar *Visual NONE NONE Debris *Visual NONE NONE scalar Sand/Dirt NONE NONE scalar *Visual NORML Appearance scalar *Visual NORML Odor *Visual NORML NORML scalar **Emulsified Water** scalar *Visual >0.01 NEG Free Water scalar *Visual NEG FLUID PROPERTIES method limit/base current history history2 Visc @ 40°C cSt ASTM D445 68 57.1 SAMPLE IMAGES method limit/base history1 history2 current Color no image no imade Bottom no image no image GRAPHS Ferrous Alloys Marl Non-ferrous Metals Mar18/2 Viscosity @ 40°C Acid Number (B) 0.1 80 75 () 70 0+ 65 (Bu 중 60 ٩ 0.05 ال 55 Abno Acid 50 0.00 Mar18/24 -Mar18/24 Mar18/24 : WearCheck USA - 501 Madison Ave., Cary, NC 27513 SCHNEIDER ELECTRIC : WC06211745 Received : 17 Jun 2024 PO DRAWER 185 Lab Number : 06211745 Tested : 18 Jun 2024 MORRISVILLE, NC Unique Number : 11084609 Diagnosed : 20 Jun 2024 - Jonathan Hester US 27560 Test Package : IND 2 Contact: ERICH WEBBER erich.webber@se.com T: (919)274-4145

To discuss this sample report, contact Customer Service at 1-800-237-1369.

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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)

Report Id: APPMOR [WUSCAR] 06211745 (Generated: 06/23/2024 01:52:41) Rev: 1

Certificate 12367

Laboratory

Sample No.

Contact/Location: ERICH WEBBER - APPMOR

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