

OIL ANALYSIS REPORT

Sample Rating Trend



COMP 2 (S/N 83970)

Refrigeration Compressor Fluid 717 SC (7 GAL)

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.

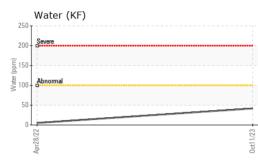
Fluid Condition

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

| SAMPLE INFORM | MATION | method | limit/base | current | history1 | history2 |
|------------------|---------------|-------------|------------|-------------|-------------|----------|
| Sample Number | | Client Info | | WC0832863 | WC0680023 | |
| Sample Date | | Client Info | | 11 Oct 2023 | 28 Apr 2022 | |
| Machine Age | mths | Client Info | | 0 | 0 | |
| Oil Age | mths | Client Info | | 0 | 15 | |
| Oil Changed | | Client Info | | Changed | Changed | |
| Sample Status | | | | NORMAL | NORMAL | |
| WEAR METALS | | method | limit/base | current | history1 | history2 |
| Iron | ppm | ASTM D5185m | >8 | 2 | 4 | |
| Chromium | ppm | ASTM D5185m | >2 | 0 | 0 | |
| Nickel | ppm | ASTM D5185m | | 0 | 0 | |
| Titanium | ppm | ASTM D5185m | | 0 | 0 | |
| Silver | ppm | ASTM D5185m | >2 | 0 | 0 | |
| Aluminum | ppm | ASTM D5185m | >3 | 0 | <1 | |
| Lead | ppm | ASTM D5185m | >2 | 0 | <1 | |
| Copper | ppm | ASTM D5185m | >8 | <1 | <1 | |
| Tin | ppm | ASTM D5185m | >4 | 0 | 0 | |
| Vanadium | ppm | ASTM D5185m | | <1 | 0 | |
| Cadmium | ppm | ASTM D5185m | | 0 | 0 | |
| ADDITIVES | | method | limit/base | current | history1 | history2 |
| Boron | ppm | ASTM D5185m | | 0 | 0 | |
| Barium | ppm | ASTM D5185m | | 0 | 0 | |
| Molybdenum | ppm | ASTM D5185m | | 0 | 0 | |
| Manganese | ppm | ASTM D5185m | | <1 | 0 | |
| Magnesium | ppm | ASTM D5185m | | 0 | 0 | |
| Calcium | ppm | ASTM D5185m | | 0 | 0 | |
| Phosphorus | ppm | ASTM D5185m | | 0 | 6 | |
| Zinc | ppm | ASTM D5185m | | 0 | 0 | |
| Sulfur | ppm | ASTM D5185m | | 7 | 38 | |
| CONTAMINANTS | | method | limit/base | current | history1 | history2 |
| Silicon | ppm | ASTM D5185m | >15 | <1 | 0 | |
| Sodium | ppm | ASTM D5185m | | <1 | 0 | |
| Potassium | ppm | ASTM D5185m | >20 | <1 | 1 | |
| Water | % | ASTM D6304 | >0.01 | 0.004 | 0.001 | |
| ppm Water | ppm | ASTM D6304 | >100 | 41.7 | 5.2 | |
| FLUID DEGRADA | | method | limit/base | current | history1 | history2 |
| Acid Number (AN) | mg KOH/g | ASTM D974 | | 0.014 | 0.07 | |

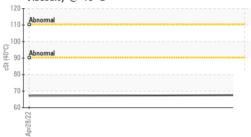


OIL ANALYSIS REPORT









| VISUAL | | metho | d limit/bas | e 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 | |
| | | *Visual | NORML | NORML | NORML | |
| Odor | scalar | *Visual | NORML | NORML | NORML | |
| Emulsified Water | scalar | *Visual | >0.01 | NEG | NEG | |
| Free Water | scalar | | | NEG | NEG | |
| FLUID PROPE | RTIES | metho | d limit/bas | e current | historv1 | history2 |
| Visc @ 40°C | cSt | | | 67.6 | 67.1 | |
| SAMPLE IMAG | ES | metho | d limit/bas | e current | history1 | history2 |
| Color | | | | | | no image |
| Bottom | | | | | | no image |
| GRAPHS | | | | | | i i i i i i i i i i i i i i i i i i i |
| Non-ferrous Me | tals | | 0ct11/2 | | | |
| 2 | С | | 0ct11/23 | | er | |
| 5100 90 Abnormal 80 | | | mg KO | 0.08 0.06 0.04 | | |
| 2 90 + 0 | | | mber (| 0.04 | | |
| 80- | | | d Nur | 0.02 | | |
| 80 | | | | 1.1 | | |
| 70 | | | | J.UU | | |
| 70- | | | 0ct11/23 | Apr28/22 | | |
| | Precipitate Silt Debris Sand/Dirt Appearance Odor Emulsified Water Free Water FLUID PROPE Visc @ 40°C SAMPLE IMAC Color Bottom GRAPHS Ferrous Alloys | Precipitate scalar Silt scalar Debris scalar Sand/Dirt scalar Appearance scalar Odor scalar Emulsified Water scalar Free Water scalar Free Water scalar FLUID PROPERTIES Visc @ 40°C cSt SAMPLE IMAGES Color Bottom GRAPHS Ferrous Alloys Non-ferrous Metals | Precipitate scalar *Visual Silt scalar *Visual Debris scalar *Visual Sand/Dirt scalar *Visual Appearance scalar *Visual Odor scalar *Visual Emulsified Water scalar *Visual Free Water scalar *Visual Free Water scalar *Visual FLUID PROPERTIES metho Visc @ 40°C cSt ASTM D4 SAMPLE IMAGES metho Color Bottom GRAPHS Ferrous Alloys Mon-ferrous Metals Mon-ferrous Metals | Precipitate scalar *Visual NONE Silt scalar *Visual NONE Sand/Dirt scalar *Visual NONE Appearance scalar *Visual NORML Odor scalar *Visual NORML Emulsified Water scalar *Visual NORML Emulsified Water scalar *Visual >0.01 Free Water scalar *Visual >0.01 Free Water scalar *Visual SCO Visc @ 40°C cSt ASTM D445 SAMPLE IMAGES method limit/bas Color Bottom GRAPHS Ferrous Alloys Mon-ferrous Metals Uscosity @ 40°C | Precipitate scalar 'Visual NONE NONE Silt scalar 'Visual NONE NONE Debris scalar 'Visual NONE NONE Sand/Dirt scalar 'Visual NONE NONE Appearance scalar 'Visual NORML NORML Odor scalar 'Visual NORML NORML Odor scalar 'Visual NORML NORML Emulsified Water scalar 'Visual >0.01 NEG Free Water scalar 'Visual >0.01 NEG Free Water scalar 'Visual NORML NORML Visc @ 40°C cSt ASTM D445 67.6 SAMPLE IMAGES method imit/base current Visc @ 40°C cSt ASTM D445 67.6 SAMPLE IMAGES method imit/base current Color Color GRAPHS Ferrous Alloys | Precipitate scalar *Visual NONE NONE NONE NONE Sitt scalar *Visual NONE NONE NONE Debris scalar *Visual NONE NONE NONE Appearance scalar *Visual NORML NORML NORML Odor scalar *Visual NORML NORML NORML MORML NORML NORML MORML NORM |

To discuss this sample report, * - 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)

Certificate L2367

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