

OIL ANALYSIS REPORT

NORMAL

Machine Id

FES TYSNRH HS208 (S/N 2013086)

Refrigeration Compressor

Fluid USPI 1009-68 SC (--- 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 component. The amount and size of particulates present in the system is acceptable.

Fluid Condition

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

2012 Ju2014 Mm2016 Du2017 Ju2011 Oc2020 Jun202 Apr2023

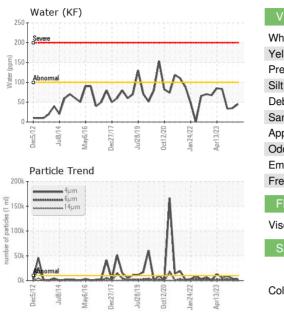
| SAMPLE INFORM | /IATION | method | limit/base | current | history1 | history2 |
|------------------|----------------|--------------|------------|-------------|-------------|-------------|
| Sample Number | | Client Info | | USP0006751 | USP0004984 | USP0001225 |
| Sample Date | | Client Info | | 11 Apr 2024 | 15 Jan 2024 | 15 Oct 2023 |
| Machine Age | hrs | Client Info | | 0 | 0 | 0 |
| Oil Age | hrs | Client Info | | 0 | 0 | 0 |
| Oil Changed | | Client Info | | N/A | N/A | N/A |
| Sample Status | | | | NORMAL | NORMAL | ATTENTION |
| WEAR METALS | | method | limit/base | current | history1 | history2 |
| Iron | ppm | ASTM D5185m | >8 | <1 | 0 | <1 |
| Chromium | ppm | ASTM D5185m | >2 | <1 | <1 | 0 |
| Nickel | ppm | ASTM D5185m | | <1 | 0 | <1 |
| Titanium | ppm | ASTM D5185m | | <1 | 0 | 0 |
| Silver | ppm | ASTM D5185m | >2 | <1 | 0 | 0 |
| Aluminum | ppm | ASTM D5185m | >3 | 1 | 0 | 0 |
| Lead | ppm | ASTM D5185m | >2 | 1 | 0 | <1 |
| Copper | ppm | ASTM D5185m | >8 | <1 | 0 | 0 |
| Tin | ppm | ASTM D5185m | >4 | 1 | 0 | 0 |
| Vanadium | ppm | ASTM D5185m | | <1 | 0 | 0 |
| Cadmium | ppm | ASTM D5185m | | 1 | 0 | 0 |
| ADDITIVES | | method | limit/base | current | history1 | history2 |
| Boron | ppm | ASTM D5185m | | 0 | 0 | 0 |
| Barium | ppm | ASTM D5185m | | 0 | 0 | 0 |
| Molybdenum | ppm | ASTM D5185m | | <1 | 0 | 0 |
| Manganese | ppm | ASTM D5185m | | <1 | 0 | 0 |
| Magnesium | ppm | ASTM D5185m | | <1 | 0 | <1 |
| Calcium | ppm | ASTM D5185m | | 0 | 0 | 0 |
| Phosphorus | ppm | ASTM D5185m | | 0 | 0 | 0 |
| Zinc | ppm | ASTM D5185m | | <1 | 0 | <1 |
| Sulfur | ppm | ASTM D5185m | 50 | 0 | 0 | 0 |
| CONTAMINANTS | ; | method | limit/base | current | history1 | history2 |
| Silicon | ppm | ASTM D5185m | >15 | <1 | <1 | 0 |
| Sodium | ppm | ASTM D5185m | | 0 | 0 | 0 |
| Potassium | ppm | ASTM D5185m | >20 | 1 | <1 | <1 |
| Water | % | ASTM D6304 | | 0.004 | 0.003 | 0.003 |
| ppm Water | ppm | ASTM D6304 | >100 | 45 | 35 | 33.2 |
| FLUID CLEANLIN | IESS | method | limit/base | current | history1 | history2 |
| Particles >4µm | | ASTM D7647 | >10000 | 2678 | 3695 | 9032 |
| Particles >6µm | | ASTM D7647 | >2500 | 820 | 891 | 2645 |
| Particles >14µm | | ASTM D7647 | >320 | 45 | 19 | 133 |
| Particles >21µm | | ASTM D7647 | >80 | 8 | 3 | 22 |
| Particles >38µm | | ASTM D7647 | >20 | 0 | 0 | 1 |
| Particles >71µm | | ASTM D7647 | >4 | 0 | 0 | 0 |
| Oil Cleanliness | | ISO 4406 (c) | >20/18/15 | 19/17/13 | 19/17/11 | 20/19/14 |
| FLUID DEGRADA | TION | method | limit/base | current | history1 | history2 |
| Acid Number (AN) | mg KOH/g | ASTM D974 | 0.005 | 0.014 | 0.015 | 0.015 |

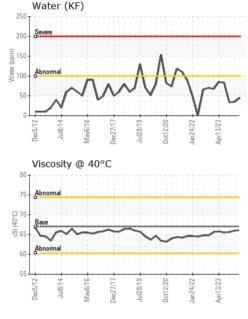
Report Id: TYSNORTX [WUSCAR] 06147375 (Generated: 04/15/2024 21:10:32) Rev: 1

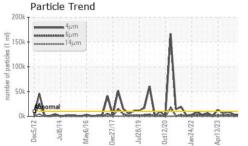
Contact/Location: JOHN MORGAN - TYSNORTX



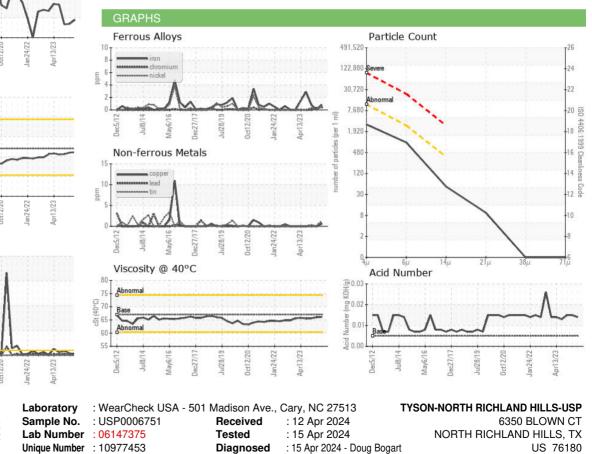
OIL ANALYSIS REPORT







| 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 | 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 | >0.01 | NEG | NEG | NEG |
| Free Water | scalar | *Visual | | NEG | NEG | NEG |
| FLUID PROPERT | IES | method | limit/base | current | history1 | history2 |
| Visc @ 40°C | cSt | ASTM D445 | 67 | 66.1 | 66.0 | 65.6 |
| SAMPLE IMAGES | 3 | method | limit/base | current | history1 | history2 |
| Color | | | | | | a contraction of the second se |
| Bottom | | | | | | |





Test Package : IND 2 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) T: (817)514-3519 F:

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