

OIL ANALYSIS REPORT

Sample Rating Trend

WATER

Machine Id FRICK FRICK B Component Screw Compressor Fluid

ISO 100 (--- GAL)

DIAGNOSIS

A Recommendation

We recommend you service the filters on this component if applicable. Resample at the next service interval to monitor.

Wear

All component wear rates are normal.

Contamination

There is a light concentration of water present in the oil. The amount and size of particulates present in the system are acceptable.

Fluid Condition

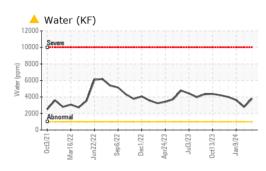
The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

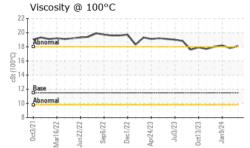
| | | ct2021 Mar202 | 2 Jun2022 Sep2022 Dec | 2022 Apr2023 Jul2023 Oct2023 | Jan 2024 | |
|-----------------|--------|---------------|-----------------------|------------------------------|--------------|-------------|
| SAMPLE INFORM | IATION | method | limit/base | current | history1 | history2 |
| Sample Number | | Client Info | | TO50001895 | TO50001891 | TO50001887 |
| Sample Date | | Client Info | | 06 Mar 2024 | 21 Feb 2024 | 09 Jan 2024 |
| 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 | | | | ABNORMAL | ABNORMAL | ABNORMAL |
| WEAR METALS | | method | limit/base | current | history1 | history2 |
| Iron | ppm | ASTM D5185m | >60 | 0 | 0 | 0 |
| Chromium | ppm | ASTM D5185m | >4 | 0 | 0 | 0 |
| Nickel | ppm | ASTM D5185m | | 0 | 0 | 0 |
| Titanium | ppm | ASTM D5185m | | 0 | 0 | 0 |
| Silver | ppm | ASTM D5185m | | 0 | 0 | 0 |
| Aluminum | ppm | ASTM D5185m | >5 | 0 | <1 | <1 |
| Lead | ppm | ASTM D5185m | >10 | 0 | <1 | <1 |
| Copper | ppm | ASTM D5185m | >30 | 0 | 0 | <1 |
| Tin | ppm | ASTM D5185m | >15 | <1 | <1 | <1 |
| Vanadium | ppm | ASTM D5185m | | 0 | 0 | <1 |
| Cadmium | ppm | ASTM D5185m | | 0 | 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 | | 0 | 0 | 0 |
| Vanganese | ppm | ASTM D5185m | | 0 | <1 | <1 |
| Magnesium | ppm | ASTM D5185m | | 1 | 2 | <1 |
| Calcium | ppm | ASTM D5185m | | 0 | <1 | 0 |
| Phosphorus | ppm | ASTM D5185m | | 0 | 9 | 2 |
| Zinc | ppm | ASTM D5185m | | 0 | 0 | 0 |
| Sulfur | ppm | ASTM D5185m | | 1376 | 1733 | 1268 |
| CONTAMINANTS | | method | limit/base | current | history1 | history2 |
| Silicon | ppm | ASTM D5185m | >50 | 12 | 21 | 14 |
| Sodium | ppm | ASTM D5185m | | <1 | 0 | <1 |
| Potassium | ppm | ASTM D5185m | >20 | <1 | 2 | 4 |
| Water | % | ASTM D6304 | >0.1 | 0.379 | ▲ 0.278 | ▲ 0.362 |
| opm Water | ppm | ASTM D6304 | >1000 | 3790 | 2 781 | ▲ 3622 |
| FLUID CLEANLIN | ESS | method | limit/base | current | history1 | history2 |
| Particles >4µm | | ASTM D7647 | >10000 | 9462 | 4028 | 5455 |
| Particles >6µm | | ASTM D7647 | >2500 | 1818 | 820 | 1192 |
| Particles >14µm | | ASTM D7647 | >320 | 98 | 56 | 86 |
| Particles >21µm | | ASTM D7647 | >80 | 21 | 16 | 26 |
| Particles >38µm | | ASTM D7647 | >20 | 0 | 0 | 1 |
| Particles >71μm | | ASTM D7647 | >4 | 0 | 0 | 0 |
| Oil Cleanliness | | ISO 4406 (c) | >20/18/15 | 20/18/14 | 19/17/13 | 20/17/14 |
| FLUID DEGRADA | TION | method | limit/base | current | history1 | history2 |
| | | | | | | |

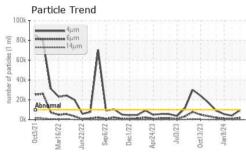
Contact/Location: DUSTIN FRY - GARROW

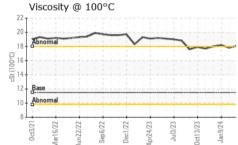


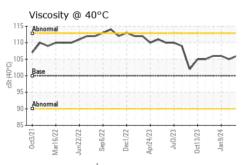
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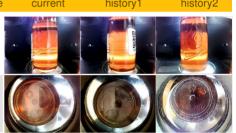


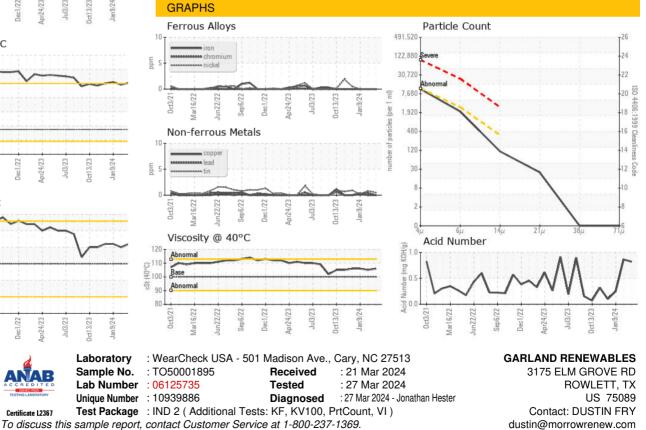


| VISUAL | | method | limit/base | current | history1 | history2 |
|----------------------|--------|------------|------------|---------|----------|----------|
| White Metal | scalar | *Visual | NONE | NONE | NONE | NONE |
| Yellow Metal | scalar | *Visual | NONE | NONE | NONE | NONE |
| Precipitate | 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 | >0.1 | 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 | 100 | 106 | 105 | 106 |
| Visc @ 100°C | cSt | ASTM D445 | 11.5 | 18.1 | 17.8 | 18.2 |
| Viscosity Index (VI) | Scale | ASTM D2270 | 102 | 189 | 187 | 191 |
| SAMPLE IMAGES | | method | limit/base | current | history1 | history2 |
| | | | | | | |

Color

Bottom





* - 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

Contact/Location: DUSTIN FRY - GARROW

T:

F: