

OIL ANALYSIS REPORT

UTILITIES FILTRATION SYSTEM FILTERED

Component **Hydraulic System**

ESSO NUTO H ISO 46 (4000 GAL)

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. 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.





NORMAL

[av2022 Jun2022 Jun2022 Sec2022 Nec2022 I⊷2023 E→2023 A→2023

| SAMPLE INFORM | IATION | method | limit/base | current | history1 | history2 |
|------------------|----------|--------------|------------|-------------|-------------|-------------|
| Sample Number | | Client Info | | RP0035054 | RP0034327 | RP0029664 |
| Sample Date | | Client Info | | 30 May 2023 | 30 Apr 2023 | 30 Mar 2023 |
| Machine Age | days | Client Info | | 0 | 0 | 0 |
| Oil Age | days | Client Info | | 0 | 0 | 0 |
| Oil Changed | | Client Info | | N/A | N/A | N/A |
| Sample Status | | | | NORMAL | NORMAL | NORMAL |
| WEAR METALS | | method | limit/base | current | history1 | history2 |
| Iron | ppm | ASTM D5185m | >20 | 0 | 0 | 0 |
| Chromium | ppm | ASTM D5185m | >20 | 0 | 0 | 0 |
| Nickel | ppm | ASTM D5185m | >20 | 0 | 0 | 0 |
| Titanium | ppm | ASTM D5185m | | 0 | 0 | 0 |
| Silver | ppm | ASTM D5185m | | 0 | 0 | 0 |
| Aluminum | ppm | ASTM D5185m | >20 | 0 | 0 | 0 |
| Lead | ppm | ASTM D5185m | >20 | 0 | 0 | 0 |
| Copper | ppm | ASTM D5185m | >20 | 0 | 0 | 0 |
| Tin | ppm | ASTM D5185m | >20 | 0 | 0 | 0 |
| Vanadium | ppm | ASTM D5185m | | 0 | 0 | 0 |
| Cadmium | ppm | ASTM D5185m | | 0 | 0 | 0 |
| ADDITIVES | | method | limit/base | current | history1 | history2 |
| Boron | ppm | ASTM D5185m | 0 | 0 | 0 | 0 |
| Barium | ppm | ASTM D5185m | 0 | 0 | 0 | 0 |
| Molybdenum | ppm | ASTM D5185m | 0 | <1 | 0 | <1 |
| Manganese | ppm | ASTM D5185m | | 0 | 0 | 0 |
| Magnesium | ppm | ASTM D5185m | 5 | 2 | <1 | 1 |
| Calcium | ppm | ASTM D5185m | 50 | 59 | 48 | 56 |
| Phosphorus | ppm | ASTM D5185m | 330 | 321 | 329 | 368 |
| Zinc | ppm | ASTM D5185m | 410 | 436 | 443 | 460 |
| CONTAMINANTS | | method | limit/base | current | history1 | history2 |
| Silicon | ppm | ASTM D5185m | >15 | 1 | 2 | 4 |
| Sodium | ppm | ASTM D5185m | | 0 | 0 | 0 |
| Potassium | ppm | ASTM D5185m | >20 | <1 | 0 | 0 |
| Water | % | ASTM D6304 | >0.05 | 0.003 | 0.005 | 0.011 |
| ppm Water | ppm | ASTM D6304 | >500 | 31.2 | 55.6 | 117.7 |
| FLUID CLEANLIN | IESS | method | limit/base | current | history1 | history2 |
| Particles >4µm | | ASTM D7647 | >5000 | 964 | 1357 | 955 |
| Particles >6µm | | ASTM D7647 | >1300 | 143 | 317 | 110 |
| Particles >14µm | | ASTM D7647 | >160 | 17 | 11 | 8 |
| Particles >21µm | | ASTM D7647 | >40 | 5 | 2 | 2 |
| Particles >38µm | | ASTM D7647 | >10 | 0 | 0 | 0 |
| Particles >71µm | | ASTM D7647 | >3 | 0 | 0 | 0 |
| Oil Cleanliness | | ISO 4406 (c) | >19/17/14 | 17/14/11 | 18/15/11 | 17/14/10 |
| FLUID DEGRADA | | method | limit/base | current | history1 | history2 |
| Acid Number (AN) | ma KOH/a | ASTM D8045 | 0.45 | 0.44 | 0.45 | 0.47 |



Water

0.60

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Bottom

