

Machine Id 11WR0133 Component Hydraulic System HITACHI HYDRAULIC SUPER EX 46HN (--- QTS)

| | 10) | | | | | | |
|--|------------------|--------|--------------|-----------|-------------|----------|----------|
| RECOMMENDATION | Test | UOM | Method | Limit/Abn | Current | History1 | History2 |
| Resample at the next service interval to monitor. | Sample Number | | Client Info | | JR0179929 | | |
| | Sample Date | | Client Info | | 29 Jan 2024 | | |
| | Machine Age | hrs | Client Info | | 1530 | | |
| | Oil Age | hrs | Client Info | | 1530 | | |
| | Filter Age | hrs | Client Info | | 0 | | |
| | Oil Changed | | Client Info | | Not Changd | | |
| | Filter Changed | | Client Info | | Changed | | |
| | Sample Status | | | | NORMAL | | |
| WEAR | PQ | | ASTM D8184 | | 11 | | |
| | Iron | ppm | ASTM D5185m | >20 | 2 | | |
| All component wear rates are normal. | Chromium | ppm | ASTM D5185m | >10 | <1 | | |
| | Nickel | ppm | ASTM D5185m | >10 | 0 | | |
| | Titanium | ppm | ASTM D5185m | | <1 | | |
| | Silver | ppm | ASTM D5185m | | 0 | | |
| | Aluminum | ppm | ASTM D5185m | >10 | <1 | | |
| | Lead | ppm | ASTM D5185m | >10 | 0 | | |
| | Copper | ppm | ASTM D5185m | >75 | 2 | | |
| | Tin | ppm | ASTM D5185m | >10 | <1 | | |
| | Vanadium | ppm | ASTM D5185m | | <1 | | |
| | White Metal | scalar | *Visual | NONE | NONE | | |
| | Yellow Metal | scalar | *Visual | NONE | NONE | | |
| CONTAMINATION | Silicon | ppm | ASTM D5185m | >20 | 1 | | |
| | Potassium | ppm | ASTM D5185m | | <1 | | |
| The amount and size of particulates present in the system are acceptable. | Water | | WC Method | >0.1 | NEG | | |
| | Particles >4µm | | ASTM D7647 | >5000 | 2197 | | |
| | Particles >6µm | | ASTM D7647 | >1300 | 841 | | |
| | Particles >14µm | | ASTM D7647 | >160 | 106 | | |
| | Particles >21µm | | ASTM D7647 | >40 | 31 | | |
| | Particles >38µm | | ASTM D7647 | >10 | 2 | | |
| | Particles >71µm | | ASTM D7647 | >3 | 1 | | |
| | Oil Cleanliness | | ISO 4406 (c) | >19/17/14 | 18/17/14 | | |
| | 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 | | |
| | Emulsified Water | scalar | *Visual | >0.1 | NEG | | |
| FLUID CONDITION | Sodium | ppm | ASTM D5185m | | <1 | | |
| | Boron | ppm | ASTM D5185m | | 0 | | |
| The AN level is acceptable for this fluid. The condition of the oil is suitable for further service. | Barium | ppm | ASTM D5185m | | 0 | | |
| | Molybdenum | ppm | ASTM D5185m | | 0 | | |
| | Manganese | ppm | ASTM D5185m | | <1 | | |
| | Magnesium | ppm | ASTM D5185m | | 50 | | |
| | Calcium | ppm | ASTM D5185m | | 15 | | |
| | Phosphorus | ppm | ASTM D5185m | 827 | 263 | | |
| | Zinc | ppm | ASTM D5185m | 0 | 333 | | |
| | 0.11 | | AOTH DELCE | 10 | | | |

Acid Number (AN) mg KOH/g ASTM D8045 0.06

Visc @ 40°C cSt ASTM D445 47

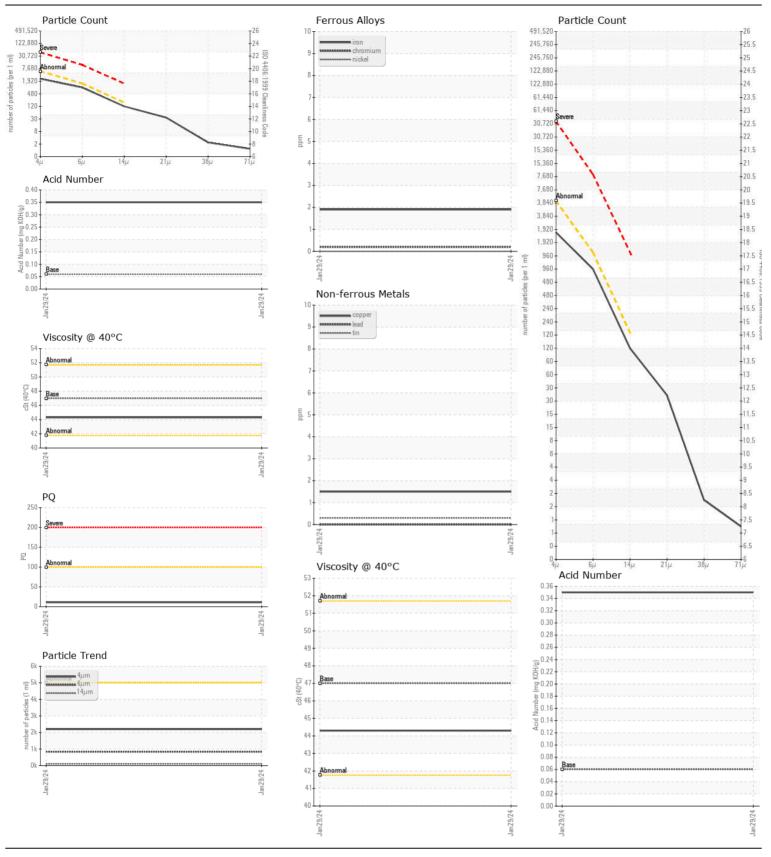
Sulfur

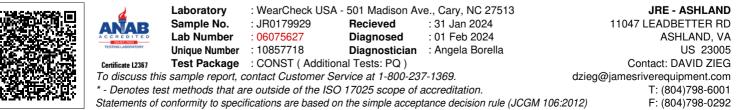
ppm ASTM D5185m 13

801

0.35

44.3





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Contact/Location: DAVID ZIEG - JAMASH

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