

[W28226]

HITACHI ZX35U-5N HCMADG60K00302949

Diesel Engine

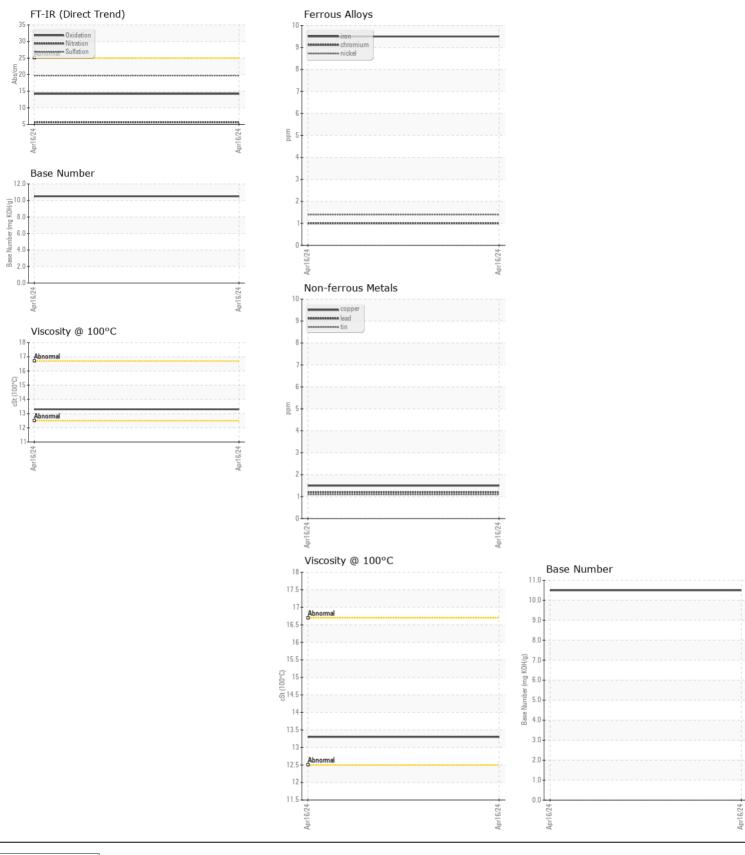
{not provided} (--- QTS)

| RECOMMENDATION | Test | UOM | Method | Limit/Abn | Current | History1 | History2 |
|---|------------------|------------|----------------------------|-----------|-------------|----------|----------|
| Resample at the next service interval to monitor. Please specify the brand, type, and viscosity of the oil on your next sample. | Sample Number | | Client Info | | JR0210283 | | |
| | Sample Date | | Client Info | | 16 Apr 2024 | | |
| | Machine Age | hrs | Client Info | | 490 | | |
| | Oil Age | hrs | Client Info | | 0 | | |
| | Filter Age | hrs | Client Info | | 0 | | |
| | Oil Changed | | Client Info | | Changed | | |
| | Filter Changed | | Client Info | | Changed | | |
| | Sample Status | | | | NORMAL | | |
| WEAR Metal levels are typical for a new component breaking in. | Iran | | ASTM D5185m | . 100 | 10 | | |
| | Iron Chromium | ppm | ASTM D5185m | | 10 1 | | |
| | Nickel | ppm | ASTM D5185m | | 1 | | |
| | Titanium | ppm | ASTM D5185m | >4 | ۱ <1 | | |
| | Silver | ppm | | . 0 | | | |
| | Aluminum | ppm | ASTM D5185m ASTM D5185m | | <1 c | | |
| | | ppm | ASTM D5185m | | 6 | | |
| | Lead | ppm | ASTM D5185m | | 1 | | |
| | Copper | ppm | ASTM D5185m | | 2 | | |
| | Tin Vanadium | ppm | | >15 | 1 | | |
| | White Metal | ppm | ASTM D5185m *Visual | | <1 NONE | | |
| | | scalar | | NONE | NONE | | |
| | Yellow Metal | scalar | *Visual | NONE | NONE | | |
| CONTAMINATION | Silicon | ppm | ASTM D5185m | >25 | 14 | | |
| | Potassium | ppm | ASTM D5185m | >20 | 2 | | |
| There is no indication of any contamination in the oil. | Fuel | | WC Method | >5 | <1.0 | | |
| | Water | | WC Method | >0.2 | NEG | | |
| | Glycol | | WC Method | | NEG | | |
| | Soot % | % | *ASTM D7844 | >3 | 0.1 | | |
| | Nitration | Abs/cm | *ASTM D7624 | >20 | 5.6 | | |
| | Sulfation | Abs/.1mm | *ASTM D7415 | >30 | 19.7 | | |
| | 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 | >0.2 | NEG | | |
| FLUID CONDITION | Sodium | nnm | ASTM D5185m | | 4 | | |
| | Boron | ppm ppm | ASTM D5185m | | 405 | | |
| The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service. | Barium | ppm | ASTM D5185m | | 2 | | |
| | Molybdenum | ppm | ASTM D5185m | | 308 | | |
| | Manganese | ppm | ASTM D5185m | | 1 | | |
| | Magnesium | ppm | ASTM D5185m | | 1015 | | |
| | Calcium | ppm | ASTM D5185m | | 1937 | | |
| | Phosphorus | ppm | ASTM D5185m | | 1308 | | |
| | Zinc | ppm | ASTM D5185m | | 1395 | | |
| | Sulfur | ppm | ASTM D5185m | | 4964 | | |
| | Oxidation | Abs/.1mm | *ASTM D7414 | >25 | 14.2 | | |
| | Base Number (BN) | | ASTM D2896 | | 10.5 | | |
| | | y.comy | | | | | |

Visc @ 100°C cSt

ASTM D445

13.3



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513 **JRE - STEPHENSON** Sample No. : JR0210283 Received 245 YARDMASTER COURT : 18 Apr 2024 Lab Number : 06152904 Tested : 19 Apr 2024 STEPHENSON, VA Unique Number : 10982982 Diagnosed : 19 Apr 2024 - Wes Davis US 22656-1761 Test Package : CONST (Additional Tests: TBN) Contact: PHIL DAUGHERTY Certificate L2367 To discuss this sample report, contact Customer Service at 1-800-237-1369. pdaugherty@jamesriverequipment.com * - Denotes test methods that are outside of the ISO 17025 scope of accreditation. T: x: Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012) F: (540)693-2588

Contact/Location: PHIL DAUGHERTY - JAMWIN Page 2 of 2