

Machine Id JOHN DEERE 644 P 1DW644PAEMLZ11990 Component Brake

JOHN DEERE HY-GARD HYD/TRANS (--- GAL)

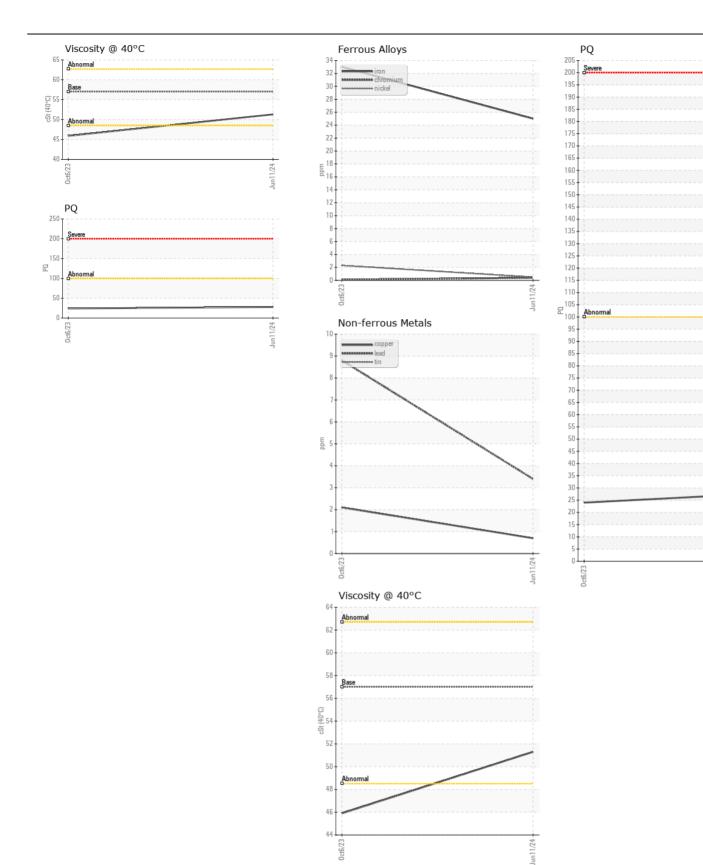
| JOHN DEERE HY-GARD HYD/IRANS (GA | 4 L) | | | | | | |
|---|------------------|--------|-------------|-----------|-------------|--------------|----------|
| RECOMMENDATION | Test | UOM | Method | Limit/Abn | Current | History1 | History2 |
| Resample at the next service interval to monitor. | Sample Number | | Client Info | | JR0218749 | JR0185087 | |
| | Sample Date | | Client Info | | 11 Jun 2024 | 06 Oct 2023 | |
| | Machine Age | hrs | Client Info | | 1985 | 1470 | |
| | Oil Age | hrs | Client Info | | 515 | 1470 | |
| | Filter Age | hrs | Client Info | | 0 | 0 | |
| | Oil Changed | | Client Info | | Changed | Changed | |
| | Filter Changed | | Client Info | | N/A | N/A | |
| | Sample Status | | | | NORMAL | ABNORMAL | |
| WEAR | PQ | | ASTM D8184 | | 28 | 24 | |
| | Iron | ppm | ASTM D5185m | >350 | 25 | 33 | |
| All component wear rates are normal. | Chromium | ppm | ASTM D5185m | >5 | <1 | <1 | |
| | Nickel | ppm | ASTM D5185m | >5 | <1 | 2 | |
| | Titanium | ppm | ASTM D5185m | | <1 | 2 | |
| | Silver | ppm | ASTM D5185m | | 0 | 0 | |
| | Aluminum | ppm | ASTM D5185m | >8 | 3 | 4 | |
| | Lead | ppm | ASTM D5185m | >10 | 3 | 9 | |
| | Copper | ppm | ASTM D5185m | >150 | <1 | 2 | |
| | Tin | ppm | ASTM D5185m | >5 | 0 | 0 | |
| | Vanadium | ppm | ASTM D5185m | | 0 | 0 | |
| | White Metal | scalar | *Visual | NONE | NONE | NONE | |
| | Yellow Metal | scalar | *Visual | NONE | NONE | NONE | |
| CONTAMINATION | Silicon | ppm | ASTM D5185m | >400 | 247 | A 848 | |
| There is no indication of any contamination in the fluid. | Potassium | ppm | ASTM D5185m | >20 | 3 | 4 | |
| | Water | | WC Method | >0.2 | NEG | NEG | |
| | Silt | scalar | *Visual | NONE | NONE | NONE | |
| | Debris | scalar | *Visual | NONE | NONE | NONE | |
| | Sand/Dirt | scalar | *Visual | NONE | NONE | NONE | |
| | Appearance | scalar | *Visual | NORML | NORML | NORML | |
| | Odor | scalar | *Visual | NORML | NORML | NORML | |
| | Emulsified Water | scalar | *Visual | >0.2 | NEG | NEG | |
| FLUID CONDITION | Sodium | ppm | ASTM D5185m | | 9 | 17 | |
| | Boron | ppm | ASTM D5185m | 6 | 48 | 153 | |
| The condition of the fluid is acceptable for the time in service. | Barium | ppm | ASTM D5185m | | <1 | 4 | |
| | Molybdenum | ppm | ASTM D5185m | | 98 | 343 | |
| | Manganese | ppm | ASTM D5185m | | <1 | 1 | |
| | Magnesium | ppm | ASTM D5185m | 145 | 213 | 495 | |
| | Calcium | ppm | ASTM D5185m | | 2927 | 1376 | |
| | Phosphorus | ppm | ASTM D5185m | | 939 | 706 | |
| | Zinc | ppm | ASTM D5185m | | 1142 | 853 | |
| | Sulfur | ppm | ASTM D5185m | | 3209 | 2550 | |
| | | - | | | | | |

Visc @ 40°C

cSt

ASTM D445 57.0 51.3 Contact/Location: Randy Warren - VANASH

45.9



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513 **JRE - ASHEVILLE** Sample No. : JR0218749 Received 101 BRUCE DRIVE : 14 Jun 2024 Lab Number : 06210447 Tested ASHEVILLE, NC : 17 Jun 2024 Unique Number : 11083311 Diagnosed : 18 Jun 2024 - Don Baldridge US 28806 Test Package : CONST (Additional Tests: PQ) Contact: Randy Warren Certificate L2367 To discuss this sample report, contact Customer Service at 1-800-237-1369. randy.warren@jamesriverequipment.com * - Denotes test methods that are outside of the ISO 17025 scope of accreditation. T: (528)667-0176 Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012) F: (828)667-4865

Contact/Location: Randy Warren - VANASH Page 2 of 2

Jun11/24