

WEARNORMALCONTAMINATIONNORMALFLUID CONDITIONNORMAL

[W68072] Machine Id 10WR.1353

Component Rear Right Planetary

SAE 85W90 (1 GAL)

RECOMMENDATION

Resample at the next service interval to monitor. (Customer Sample Comment: W68072)

WEAR

Metal levels are typical for a new component breaking in.

CONTAMINATION

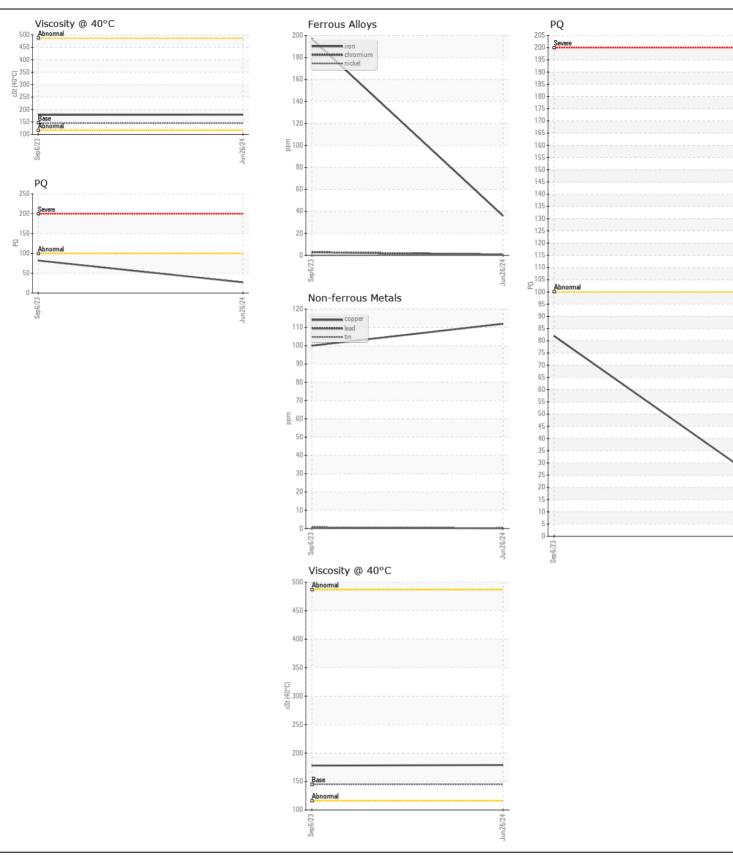
There is no indication of any contamination in the oil.

FLUID CONDITION

The condition of the oil is acceptable for the time in service.

| Test | UOM | Method | Limit/Abn | Current | History1 | History2 |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------|----------|
| Sample Number | | Client Info | | JR0220535 | JR0178118 | |
| Sample Date | | Client Info | | 26 Jun 2024 | 06 Sep 2023 | |
| Machine Age | hrs | Client Info | | 3275 | 2386 | |
| Oil Age | hrs | Client Info | | 889 | 2386 | |
| Filter Age | hrs | Client Info | | 0 | 0 | |
| Oil Changed | | Client Info | | Changed | Changed | |
| Filter Changed | | Client Info | | N/A | N/A | |
| Sample Status | | | | NORMAL | NORMAL | |
| | | | | | 00 | |
| PQ | | ASTM D8184 | 500 | 27 | 82 | |
| Iron | ppm | ASTM D5185m | >500 | 36 | 197 | |
| Chromium | ppm | ASTM D5185m | >10 | <1 | 3 | |
| Nickel | ppm | ASTM D5185m | >10 | <1 | 0 | |
| Titanium | ppm | ASTM D5185m | | <1 | <1 | |
| Silver | ppm | ASTM D5185m | | 0 | 0 | |
| Aluminum | ppm | ASTM D5185m | >25 | 3 | <1 | |
| Lead | ppm | ASTM D5185m | >25 | <1 | <1 | |
| Copper | ppm | ASTM D5185m | >75 | 112 | 100 | |
| Tin | ppm | ASTM D5185m | >10 | <1 | <1 | |
| Vanadium | ppm | ASTM D5185m | | 0 | 0 | |
| White Metal | scalar | *Visual | NONE | NONE | NONE | |
| Yellow Metal | scalar | *\/iouol | | | | |
| | Scalai | *Visual | NONE | NONE | NONE | |
| | | | | | | |
| Silicon | ppm | ASTM D5185m | >75 | 2 | 2 | |
| Silicon Potassium | | ASTM D5185m ASTM D5185m | >75 >20 | 2 2 | 2 <1 | |
| Silicon Potassium Water | ppm ppm | ASTM D5185m ASTM D5185m WC Method | >75 >20 >0.2 | 2 2 NEG | 2 <1 NEG | |
| Silicon Potassium Water Silt | ppm ppm scalar | ASTM D5185m ASTM D5185m WC Method *Visual | >75 >20 >0.2 NONE | 2 2 NEG NONE | 2 <1 NEG NONE | |
| Silicon Potassium Water Silt Debris | ppm ppm scalar scalar | ASTM D5185m ASTM D5185m WC Method *Visual *Visual | >75 >20 >0.2 NONE NONE | 2 2 NEG NONE NONE | 2 <1 NEG NONE NONE | |
| Silicon Potassium Water Silt Debris Sand/Dirt | ppm ppm scalar scalar scalar | ASTM D5185m ASTM D5185m WC Method *Visual *Visual | >75 >20 >0.2 NONE NONE NONE | 2 2 NEG NONE NONE NONE | 2 <1 NEG NONE NONE NONE | |
| Silicon Potassium Water Silt Debris Sand/Dirt Appearance | ppm ppm scalar scalar scalar scalar | ASTM D5185m ASTM D5185m WC Method *Visual *Visual *Visual *Visual | >75 >20 >0.2 NONE NONE NONE NORML | 2 2 NEG NONE NONE NONE NORML | 2 <1 NEG NONE NONE NONE NORML | |
| Silicon Potassium Water Silt Debris Sand/Dirt Appearance Odor | ppm ppm scalar scalar scalar scalar scalar | ASTM D5185m ASTM D5185m WC Method *Visual *Visual *Visual *Visual *Visual | >75 >20 >0.2 NONE NONE NONE NORML NORML | 2 2 NEG NONE NONE NONE NORML NORML | 2 <1 NEG NONE NONE NONE NORML NORML | |
| Silicon Potassium Water Silt Debris Sand/Dirt Appearance | ppm ppm scalar scalar scalar scalar | ASTM D5185m ASTM D5185m WC Method *Visual *Visual *Visual *Visual | >75 >20 >0.2 NONE NONE NONE NORML | 2 2 NEG NONE NONE NONE NORML | 2 <1 NEG NONE NONE NONE NORML | |
| Silicon Potassium Water Silt Debris Sand/Dirt Appearance Odor | ppm ppm scalar scalar scalar scalar scalar | ASTM D5185m ASTM D5185m WC Method *Visual *Visual *Visual *Visual *Visual | >75 >20 >0.2 NONE NONE NONE NORML NORML | 2 2 NEG NONE NONE NONE NORML NORML | 2 <1 NEG NONE NONE NONE NORML NORML | |
| Silicon Potassium Water Silt Debris Sand/Dirt Appearance Odor Emulsified Water | ppm ppm scalar scalar scalar scalar scalar scalar | ASTM D5185m ASTM D5185m WC Method *Visual *Visual *Visual *Visual *Visual *Visual | >75 >20 >0.2 NONE NONE NONE NORML NORML | 2 2 NEG NONE NONE NONE NORML NORML NEG | 2 <1 NEG NONE NONE NONE NORML NORML NEG | |
| Silicon Potassium Water Silt Debris Sand/Dirt Appearance Odor Emulsified Water Sodium | ppm ppm scalar scalar scalar scalar scalar scalar scalar | ASTM D5185m ASTM D5185m WC Method *Visual *Visual *Visual *Visual *Visual *Visual ASTM D5185m | >75 >20 >0.2 NONE NONE NONE NORML NORML | 2 2 NEG NONE NONE NORML NORML NEG 4 | 2 <1 NEG NONE NONE NORML NORML NEG 5 | |
| Silicon Potassium Water Silt Debris Sand/Dirt Appearance Odor Emulsified Water Sodium Boron | ppm ppm scalar scalar scalar scalar scalar scalar gpm | ASTM D5185m ASTM D5185m WC Method *Visual *Visual *Visual *Visual *Visual *Visual ASTM D5185m ASTM D5185m | >75 >20 >0.2 NONE NONE NONE NORML NORML | 2 2 NEG NONE NONE NORML NORML NEG 4 <1 | 2 <1 NEG NONE NONE NORML NORML NEG 5 <1 | |
| Silicon Potassium Water Silt Debris Sand/Dirt Appearance Odor Emulsified Water Sodium Boron Barium | ppm ppm scalar scalar scalar scalar scalar scalar ppm ppm | ASTM D5185m ASTM D5185m WC Method *Visual *Visual *Visual *Visual *Visual *Visual ASTM D5185m ASTM D5185m | >75 >20 >0.2 NONE NONE NONE NORML NORML | 2 2 NEG NONE NONE NORML NORML NEG 4 <1 325 | 2 <1 NEG NONE NONE NORML NORML NEG 5 <1 305 | |
| Silicon Potassium Water Silt Debris Sand/Dirt Appearance Odor Emulsified Water Sodium Boron Barium Molybdenum | ppm ppm scalar scalar scalar scalar scalar scalar ppm ppm | ASTM D5185m ASTM D5185m WC Method *Visual *Visual *Visual *Visual *Visual ASTM D5185m ASTM D5185m ASTM D5185m | >75 >20 >0.2 NONE NONE NONE NORML NORML | 2 2 NEG NONE NONE NORML NORML NEG 4 <1 325 <1 | 2 <1 NEG NONE NONE NORML NORML NEG 5 <1 305 0 | |
| Silicon Potassium Water Silt Debris Sand/Dirt Appearance Odor Emulsified Water Sodium Boron Barium Molybdenum Manganese | ppm ppm scalar scalar scalar scalar scalar gpm ppm ppm | ASTM D5185m ASTM D5185m WC Method *Visual *Visual *Visual *Visual *Visual ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m | >75 >20 >0.2 NONE NONE NONE NORML NORML | 2 2 NEG NONE NONE NORML NORML NEG 4 <1 325 <1 325 | 2 <1 NEG NONE NONE NORML NORML NEG 5 <1 305 0 2 | |
| Silicon Potassium Water Silt Debris Sand/Dirt Appearance Odor Emulsified Water Sodium Boron Barium Molybdenum Manganese Magnesium | ppm ppm scalar scalar scalar scalar scalar ppm ppm ppm ppm ppm | ASTM D5185m ASTM D5185m WC Method *Visual *Visual *Visual *Visual *Visual ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m | >75 >20 >0.2 NONE NONE NONE NORML NORML | 2 2 NEG NONE NONE NORML NORML NEG 4 <1 325 <1 1 325 <1 1 | 2 <1 NEG NONE NONE NORML NORML NEG 5 <1 305 0 2 0 | |
| Silicon Potassium Water Silt Debris Sand/Dirt Appearance Odor Emulsified Water Sodium Boron Barium Molybdenum Manganese Magnesium Calcium | ppm ppm scalar scalar scalar scalar scalar ppm ppm ppm ppm ppm | ASTM D5185m ASTM D5185m WC Method *Visual *Visual *Visual *Visual *Visual ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m | >75 >20 >0.2 NONE NONE NONE NORML NORML | 2 NEG NONE NONE NORML NORML NEG 4 <1 325 <1 1 325 <1 1 2 | 2 <1 NEG NONE NONE NORML NORML NEG 5 <1 305 0 2 0 2 0 11 | |
| Silicon Potassium Water Silt Debris Sand/Dirt Appearance Odor Emulsified Water Sodium Boron Barium Molybdenum Manganese Magnesium Calcium | ppm ppm scalar scalar scalar scalar scalar ppm ppm ppm ppm ppm ppm ppm | ASTM D5185m ASTM D5185m WC Method *Visual *Visual *Visual *Visual *Visual ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m | >75 >20 >0.2 NONE NONE NONE NORML NORML | 2 NEG NONE NONE NORML NORML NEG 4 <1 325 <1 1 325 <1 1 2 1123 | 2 <1 NEG NONE NONE NORML NORML NEG 5 <1 305 0 2 0 2 0 11 1107 | |
| Silicon Potassium Water Silt Debris Sand/Dirt Appearance Odor Emulsified Water Sodium Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc | ppm ppm scalar scalar scalar scalar scalar ppm ppm ppm ppm ppm ppm ppm | ASTM D5185m ASTM D5185m WC Method *Visual *Visual *Visual *Visual *Visual ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m | >75 >20 >0.2 NONE NONE NONE NORML NORML | 2 2 NEG NONE NONE NORML NORML NEG 4 <1 325 <1 1 325 <1 1 2 1123 11 | 2 <1 NEG NONE NONE NORML NORML NEG 5 <1 305 0 2 0 2 0 11 1107 0 | |

Submitted By: Mike Young - CHARLOTTE SHOP



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513 **JRE - CHARLOTTE** Sample No. : JR0220535 Received : 27 Jun 2024 9550 STATESVILLE ROAD Lab Number : 06222532 Tested : 28 Jun 2024 CHARLOTTE, NC US 28269 Unique Number : 11100729 : 28 Jun 2024 - Angela Borella Diagnosed Test Package : CONST (Additional Tests: PQ) Contact: CHARLOTTE SHOP Certificate L2367 To discuss this sample report, contact Customer Service at 1-800-237-1369. myoung@jamesriverequipment.com * - Denotes test methods that are outside of the ISO 17025 scope of accreditation. T: (704)597-0211 Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012) F: (704)596-6198

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