

[W53000] HYDREMA 912HM 15652

Front Left Wheel Hub

JOHN DEERE GL-5 80W90 (--- 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.

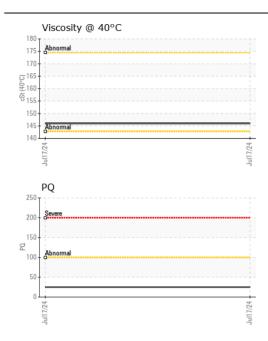
FLUID CONDITION

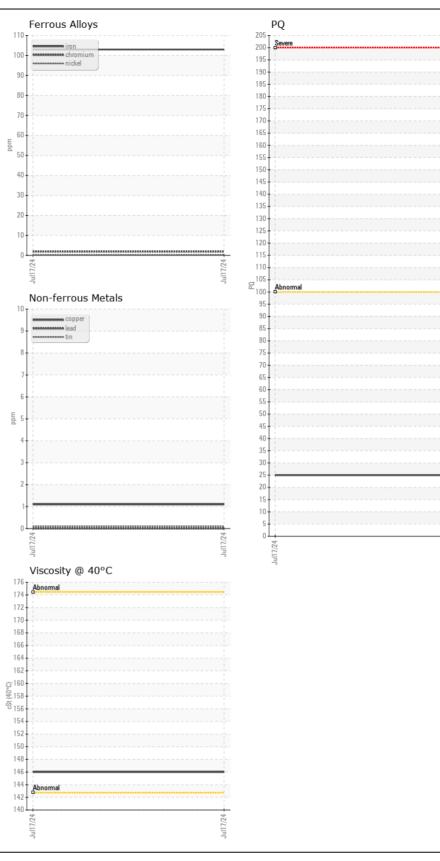
The condition of the oil is acceptable for the time in service.

| Test UOM Method Limit/Abn Current History1 History1 Sample Number Client Info I7 Jul 2024 Sample Date Client Info 17 Jul 2024 Machine Age hrs Client Info 994 Oil Age hrs Client Info 994 Filter Age hrs Client Info 0 Oil Changed Client Info Changed Sample Status Client Info N/A Sample Status - NORMAL Iron pp ASTM D5185 >50 103 Nickel pp ASTM D5185 >5 <1 Silver pp ASTM D5185 >5 4 Aluminum pp ASTM D5185< | | | | | | | |
|---|-----------------|--------|-------------|-----------|-------------|----------|----------|
| Sample DateClient InfoI7 Jul 2024Machine AgehrsClient Info994Oil AgehrsClient Info994Filter AgehrsClient Info0Oil ChangedClient InfoN/AFilter ChangedIClient InfoN/AFilter ChangedClient InfoN/ASample StatusVXSTM D818425PQASTM D8185>500103IronppmASTM D5185m>50103NickelppmASTM D5185m>5<1NickelppmASTM D5185m>54AluminumppmASTM D5185m>51AluminumppmASTM D5185m>51YanadiumppmASTM D5185m>51YanadiumppmASTM D5185m>201Yellow Metalscalar*VisualNONENONESiliconppmASTM D5185m>204Yellow Metalscalar*VisualNONENONESiliconppmASTM D5185m>204Potassiumppm | est | UOM | Method | Limit/Abn | Current | History1 | History2 |
| Machine Age Machine AgehrsClient Info994Oil AgehrsClient Info994Filter AgehrsClient Info0Oil ChangedClient InfoN/AFilter ChangedClient InfoN/ASample StatusClient InfoN/APQASTM D8184RorePQASTM D5185m>500103ChromiumppmASTM D5185m>82NickelppmASTM D5185m>5<1SilverppmASTM D5185m>54AluminumppmASTM D5185m>50AluminumppmASTM D5185m>51VanadiumppmASTM D5185m>50VanadiumppmASTM D5185m>51VanadiumppmASTM D5185m>51VanadiumppmASTM D5185m>51VanadiumppmASTM D5185m>51VanadiumppmASTM D5185m>51VanadiumppmASTM D5185m>211SiliconppmASTM D5185m>211 <th>ample Number</th> <th></th> <th>Client Info</th> <th></th> <th>JR0211761</th> <th></th> <th></th> | ample Number | | Client Info | | JR0211761 | | |
| Oil Age Filter Age hrsClient Info994Filter Age Oil ChangedKilent InfoClient InfoChangedFilter ChangedClient InfoN/AFilter ChangedClient InfoN/ASample StatusClient InfoN/APQASTM D818411PQASTM D5185m>500103ChromiumppmASTM D5185m>82NickelppmASTM D5185m>50113NickelppmASTM D5185m>54SilverppmASTM D5185m>54AluminumppmASTM D5185m>51QopperppmASTM D5185m>51VanadiumppmASTM D5185m>501Yellow Metalscalar*VisualNONENONESiliconppmASTM D5185m>2511Yellow Metalscalar*VisualNONENONESiliconppmASTM D5185m>204Yellow Metalscalar*VisualNONENONESiliconppmASTM D5185m>204SiliconppmASTM D5185m>204SiliconppmASTM D5185m>20 <t< th=""><th>ample Date</th><th></th><th>Client Info</th><th></th><th>17 Jul 2024</th><th></th><th></th></t<> | ample Date | | Client Info | | 17 Jul 2024 | | |
| Filter Age Oil ChangedhrsClient InfoIOIOil ChangedClient InfoN/AIIIIIISample StatusClient InfoN/AIIIIIISample StatusVASTM D8184PDIIIIIPQASTM D5185m>500103IIIIIIPQPpmASTM D5185m>82IIIIIChromiumppmASTM D5185m>5<1IIIIINickelppmASTM D5185m>5<1III <th>lachine Age</th> <th>hrs</th> <th>Client Info</th> <th></th> <th>994</th> <th></th> <th></th> | lachine Age | hrs | Client Info | | 994 | | |
| Oil ChangedClient InfoChangedFilter ChangedClient InfoN/ASample StatusClient InfoN/APQASTM D818425PQASTM D8184500103IronppmASTM D5185m>62ChromiumppmASTM D5185m>82NickelppmASTM D5185m>5<1SilverppmASTM D5185m>54AluminumppmASTM D5185m>54LeadppmASTM D5185m>54CopperppmASTM D5185m>501YanadiumppmASTM D5185m>501Vinte Metalscalar*VisualNONEActSiliconppmASTM D5185m>201SiliconppmASTM D5185m>204SiliconppmASTM D5185m>204SiliconppmASTM D5185m>204SiliconppmASTM D5185m>204 | vil Age | hrs | Client Info | | 994 | | |
| Filter Changed Client Info N/A | ilter Age | hrs | Client Info | | 0 | | |
| Sample Status NORMAL PQ ASTM D8184 25 Iron ppm ASTM D8185m >500 103 Chromium ppm ASTM D5185m >8 2 Nickel ppm ASTM D5185m >5 <1 Silver ppm ASTM D5185m >5 <1 Aluminum ppm ASTM D5185m >5 <1 Aluminum ppm ASTM D5185m >5 <1 Aluminum ppm ASTM D5185m >5 < Copper ppm ASTM D5185m >50 < Vanadium ppm ASTM D5185m >50 < Vendetdal scalar *Visual NONE NONE Yellow Metal sca | il Changed | | Client Info | | Changed | | |
| PQ ASTM D8184 25 Iron ppm ASTM D5185m >500 103 Chromium ppm ASTM D5185m >8 2 Nickel ppm ASTM D5185m >8 2 Titanium ppm ASTM D5185m >6 -1 Silver ppm ASTM D5185m >5 41 Aluminum ppm ASTM D5185m >5 44 Lead ppm ASTM D5185m >50 1 Copper ppm ASTM D5185m >50 1 Vanadium ppm ASTM D5185m >50 1 Visual NONE NONE Silicon ppm ASTM D5185m >20 1 | ilter Changed | | Client Info | | N/A | | |
| IronppmASTM D5185m>500103ChromiumppmASTM D5185m>82NickelppmASTM D5185m>5<1TitaniumppmASTM D5185m>5<1SilverppmASTM D5185m>54AluminumppmASTM D5185m>54LeadppmASTM D5185m>501CopperppmASTM D5185m>501YanadiumppmASTM D5185m>501VanadiumppmASTM D5185m>501Yellow Metalscalar*VisualNONENONESiliconppmASTM D5185m>204SiliconppmASTM D5185m>204SiliconppmASTM D5185m>204SiliconppmASTM D5185m>204SiliconppmASTM D5185m>20ASiliconppmASTM D5185m>20ASiliconppmASTM D5185m>20ASiliconppmASTM D5185m>20ASilitscalar*V | ample Status | | | | NORMAL | | |
| Chromium ppm ASTM D5185m >8 2 Nickel ppm ASTM D5185m >5 <1 Titanium ppm ASTM D5185m >5 <1 Silver ppm ASTM D5185m < <1 Aluminum ppm ASTM D5185m >5 4 Lead ppm ASTM D5185m >5 0 Copper ppm ASTM D5185m >5 0 Vanadium ppm ASTM D5185m >50 1 Vanadium ppm ASTM D5185m >20 <1 Yellow Metal scalar *Visual NONE NONE | Q | | ASTM D8184 | | 25 | | |
| ChromiumppmASTM D5185m>82NickelppmASTM D5185m>5<1 | on | ppm | ASTM D5185m | >500 | 103 | | |
| Nickel ppm ASTM D5185m >5 <1 | hromium | | | | 2 | | |
| TitaniumppmASTM D5185m<<1SilverppmASTM D5185m>54AluminumppmASTM D5185m>54LeadppmASTM D5185m>501CopperppmASTM D5185m>501TinppmASTM D5185m>501VanadiumppmASTM D5185m< | | | | | | | |
| Silver ppm ASTM D5185m <1 | | | | | | | |
| AluminumppmASTM D5185m>54LeadppmASTM D5185m>50CopperppmASTM D5185m>501TinppmASTM D5185m>501VanadiumppmASTM D5185m<<1White Metalscalar*VisualNONENONEYellow Metalscalar*VisualNONENONESiliconppmASTM D5185m>204PotassiumppmASTM D5185m>204WaterWC Method>0.2NEGSilitscalar*VisualNONENONESadd/Dirtscalar*VisualNONENONEAppearancescalar*VisualNORMLNORMLAppearancescalar*VisualNORMLNORML | | | | | | | |
| LeadppmASTM D5185m>50CopperppmASTM D5185m>501TinppmASTM D5185m>501VanadiumppmASTM D5185m<1 | | | | >5 | | | |
| CopperppmASTM D5185m>501TinppmASTM D5185m< | | | | | - | | |
| TinppmASTM D5185m<1 | | | | | - | | |
| VanadiumppmASTM D5185m<1 | ••• | | | 200 | - | | |
| White Metalscalar*VisualNONENONEYellow Metalscalar*VisualNONENONESiliconppmASTM D5185m>2511PotassiumppmASTM D5185m>204WaterWC Method>0.2NEGSiltscalar*VisualNONENONESiltscalar*VisualNONENONEDebrisscalar*VisualNONENONESand/Dirtscalar*VisualNORHNORHAppearancescalar*VisualNORMLNORMLOdorscalar*VisualNORMLNORML | | | | | | | |
| Yellow Metalscalar*VisualNONENONESiliconppmASTM D5185m>2511PotassiumppmASTM D5185m>204WaterWC Method>0.2NEGSiltscalar*VisualNONENONEDebrisscalar*VisualNONENONESand/Dirtscalar*VisualNONENONEAppearancescalar*VisualNORMLNORMLOdorscalar*VisualNORMLNORML | | | | NONE | | | |
| SiliconppmASTM D5185m>2511PotassiumppmASTM D5185m>204WaterWC Method>0.2NEGSiltscalar*VisualNONENONEDebrisscalar*VisualNONENONESand/Dirtscalar*VisualNONENONEAppearancescalar*VisualNORMLNORMLOdorscalar*VisualNORMLINORML | | | | | _ | | |
| PotassiumppmASTM D5185m>204WaterWC Method>0.2NEGSiltscalar*VisualNONENONEDebrisscalar*VisualNONENONESand/Dirtscalar*VisualNONENONEAppearancescalar*VisualNORMLNORMLOdorscalar*VisualNORMLINORML | | | | | | | |
| WaterWC Method>0.2NEGSiltscalar*VisualNONENONEDebrisscalar*VisualNONENONESand/Dirtscalar*VisualNONENONEAppearancescalar*VisualNORMLNORMLOdorscalar*VisualNORMLINORML | ilicon | ppm | ASTM D5185m | >25 | 11 | | |
| Siltscalar*VisualNONENONEDebrisscalar*VisualNONENONESand/Dirtscalar*VisualNONENONEAppearancescalar*VisualNORMLNORMLOdorscalar*VisualNORMLNORML | otassium | ppm | ASTM D5185m | >20 | 4 | | |
| Debrisscalar*VisualNONENONESand/Dirtscalar*VisualNONENONEAppearancescalar*VisualNORMLNORMLOdorscalar*VisualNORMLNORML | /ater | | WC Method | >0.2 | NEG | | |
| Sand/Dirtscalar*VisualNONENONEAppearancescalar*VisualNORMLNORMLOdorscalar*VisualNORMLNORML | ilt | scalar | *Visual | NONE | NONE | | |
| Appearancescalar*VisualNORMLNORMLOdorscalar*VisualNORMLNORML | ebris | scalar | *Visual | NONE | NONE | | |
| Odor scalar *Visual NORML NORML | and/Dirt | scalar | *Visual | NONE | NONE | | |
| | ppearance | scalar | *Visual | NORML | NORML | | |
| Emulsified Water scalar *Visual >0.2 NEG | dor | scalar | *Visual | NORML | NORML | | |
| | mulsified Water | scalar | *Visual | >0.2 | NEG | | |
| Sodium ppm ASTM D5185m 0 | odium | ppm | ASTM D5185m | | 0 | | |
| Boron ppm ASTM D5185m <1 | oron | ppm | ASTM D5185m | | <1 | | |
| Barium ppm ASTM D5185m 0 | arium | | ASTM D5185m | | 0 | | |
| Molybdenum ppm ASTM D5185m <1 | lolybdenum | | ASTM D5185m | | <1 | | |
| Manganese ppm ASTM D5185m 2 | - | | | | | | |
| Magnesium ppm ASTM D5185m 3 | • | | ASTM D5185m | | 3 | | |
| Calcium ppm ASTM D5185m 24 | 0 | | | | 24 | | |
| Phosphorus ppm ASTM D5185m 688 | hosphorus | | | | 688 | | |
| Zinc ppm ASTM D5185m 28 | • | | | | | | |
| Sulfur ppm ASTM D5185m 20249 | | | ASTM D5185m | | | | |
| Visc @ 40°C cSt ASTM D445 146 | | | | | | | |

WEAR NORMAL CONTAMINATION NORMAL **FLUID CONDITION** NORMAL

Contact/Location: DAVID ZIEG - JAMASH





JRE - ASHLAND Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513 Sample No. : JR0211761 Received 11047 LEADBETTER RD : 18 Jul 2024 Lab Number : 06240576 Tested ASHLAND, VA : 19 Jul 2024 Unique Number : 11129410 Diagnosed : 20 Jul 2024 - Don Baldridge US 23005 Test Package : CONST (Additional Tests: PQ) Contact: DAVID ZIEG Certificate L2367 To discuss this sample report, contact Customer Service at 1-800-237-1369. dzieg@jamesriverequipment.com * - Denotes test methods that are outside of the ISO 17025 scope of accreditation. T: (804)798-6001 Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012) F: (804)798-0292

Contact/Location: DAVID ZIEG - JAMASH Page 2 of 2

Jul17/24