

Machine Id HAMM H12i H2352440 Component Rear Differential Fluid JOHN DEERE GL-5 80W90 (--- GAL)

RECOMMENDATION

Resample at the next service interval to monitor.

WEAR

All component wear rates are normal.

CONTAMINATION

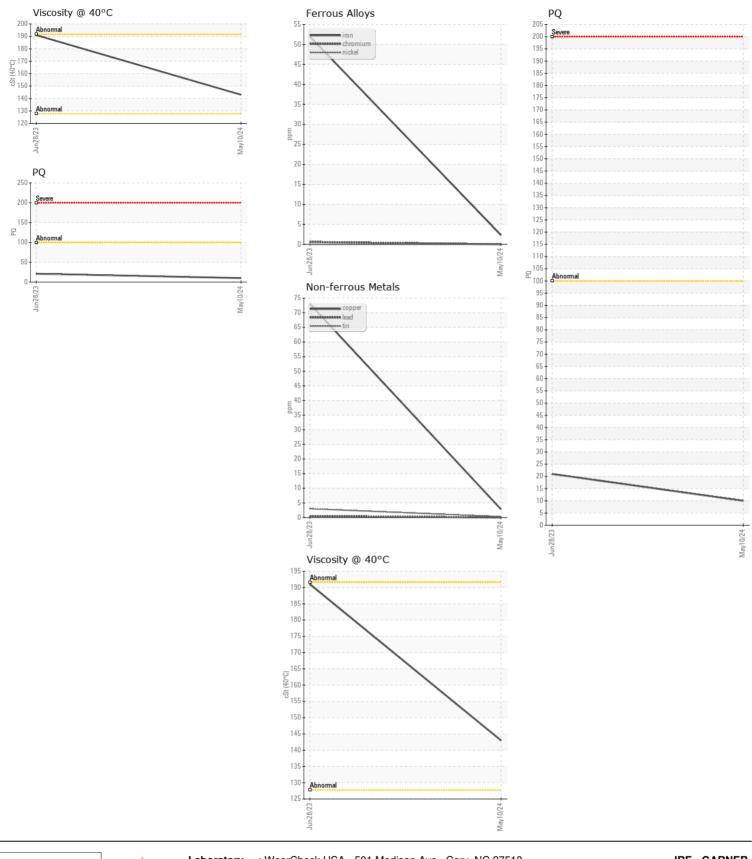
There is no indication of any contamination in the oil.

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 ID JR0212553 JR0175675	ry2
Sample Date Client Info I0 May 2024 28 Jun 2023 Machine Age hrs Client Info 512 358 Oil Age hrs Client Info 154 358 Oil Age hrs Client Info 0 0 Oil Changed Client Info Not Changd Changed Oil Changed Client Info N/A N/A Filter Changed Client Info Not Changd Changed Sample Status Client Info N/A N/A PQ ASTM D8184 10 21 Iron ppm ASTM D5185m >500 2 52 Nickel ppm ASTM D5185m >10 0 Nickel ppm ASTM D5185m >25 0 Silver ppm ASTM D5185m >25 0 < </th <th></th>	
Machine Age hrs Client Info 512 358 Oil Age hrs Client Info 154 358 Filter Age hrs Client Info 0 0 Oil Changed Client Info Not Changd Changed Filter Changed Client Info N/A N/A Filter Changed Client Info N/A N/A Sample Status Client Info N/A N/A PQ ASTM D8184 10 21 Iron ppm ASTM D5185m<>500 2 52 Nickel ppm ASTM D5185m<>10 0 Nickel ppm ASTM D5185m<>25 0 2 Silver ppm ASTM D5185m<>25 0 2 Copper ppm ASTM D5185m<>100 3 73 Vanadium ppm ASTM D51	
Oil AgehrsClient Info154358Filter AgehrsClient Info00Oil ChangedClient InfoNot ChangdChangedFilter ChangedQClient InfoN/AN/AFilter ChangedQClient InfoN/AN/ASample StatusNORMALNORMALNORMALPQASTM D81841021IronppmASTM D5185m>500252ChromiumppmASTM D5185m>100<	
Filter Age hrs Client Info 0 0 Oil Changed Client Info Not Changd Changed Filter Changed Client Info N/A N/A Sample Status Client Info N/A N/A PQ ASTM D8184 10 21 Iron ppm ASTM D5185m >500 2 52 Chromium ppm ASTM D5185m >10 0 <1 Nickel ppm ASTM D5185m >10 0 <1 Silver ppm ASTM D5185m >10 0 <1 Aluminum ppm ASTM D5185m >25 0 <1 Copper ppm ASTM D5185m >100 3 73 Tin ppm ASTM D5185m >100 3 Vanadium ppm ASTM D5185m	
Oil ChangedClient InfoNot ChangedChangedFilter ChangedClient InfoN/AN/ASample StatusClient InfoN/ANORMALPQASTM D81841021IronppmASTM D5185m>500252ChromiumppmASTM D5185m>100<1NickelppmASTM D5185m>1000SilverppmASTM D5185m>2502AluminumppmASTM D5185m>250<1AluminumppmASTM D5185m>100373CopperppmASTM D5185m>1003VanadiumppmASTM D5185m>100<1VanadiumppmASTM D5185m>1003Yellow Metalscalar*VisualNONENONENONESiliconppmASTM D5185m>75216	
Filter Changed Sample Status Client Info N/A N/A PQ ASTM D8184 10 21 Iron ppm ASTM D5185m >500 2 52 Chromium ppm ASTM D5185m >10 0 <1 Nickel ppm ASTM D5185m >10 0 <1 Nickel ppm ASTM D5185m >10 0 <1 Silver ppm ASTM D5185m 0 0 <1 Aluminum ppm ASTM D5185m >25 0 <1 Copper ppm ASTM D5185m >100 3 73 Vanadium ppm ASTM D5185m >100 3 Veladu scalar *Visual NONE NONE Silicon ppm ASTM D5185m >75 2 16	
Sample Status NORMAL NORMAL NORMAL PQ ASTM D8184 10 21 Iron ppm ASTM D5185m >500 2 52 Chromium ppm ASTM D5185m >10 0 <11 Nickel ppm ASTM D5185m >10 0 0 Titanium ppm ASTM D5185m >10 0 0 Silver ppm ASTM D5185m >25 0 2 Aluminum ppm ASTM D5185m >25 0 <1 Lead ppm ASTM D5185m >100 3 73 Copper ppm ASTM D5185m >100 3 73 Vanadium ppm ASTM D5185m >10 <1 3 Yellow Metal scalar *Visual NONE NONE NONE <	
PQ ASTM D8184 10 21 Iron ppm ASTM D5185m >500 2 52 Chromium ppm ASTM D5185m >10 0 <1	
Iron ppm ASTM D5185m >500 2 52 Chromium ppm ASTM D5185m >10 0 <1 Nickel ppm ASTM D5185m >10 0 0 Titanium ppm ASTM D5185m >10 0 0 Silver ppm ASTM D5185m 0 0 Aluminum ppm ASTM D5185m >25 0 2 Lead ppm ASTM D5185m >25 0 <1 Copper ppm ASTM D5185m >100 3 73 Tin ppm ASTM D5185m >100 3 Vanadium ppm ASTM D5185m >10 <1 3 Yellow Metal scalar *Visual NONE NONE NONE Silicon ppm ASTM D5185m >75	
Iron ppm ASTM D5185m >500 2 52 Chromium ppm ASTM D5185m >10 0 <1 Nickel ppm ASTM D5185m >10 0 0 Titanium ppm ASTM D5185m >10 0 0 Silver ppm ASTM D5185m 0 0 Aluminum ppm ASTM D5185m >25 0 2 Lead ppm ASTM D5185m >25 0 <1 Copper ppm ASTM D5185m >100 3 73 Tin ppm ASTM D5185m >100 3 Vanadium ppm ASTM D5185m >10 <1 3 Yellow Metal scalar *Visual NONE NONE NONE Silicon ppm ASTM D5185m >75	
Chromium ppm ASTM D5185m >10 0 <1	
Nickel ppm ASTM D5185m >10 0 0 Titanium ppm ASTM D5185m 0 0 0 Silver ppm ASTM D5185m 0 0 0 Aluminum ppm ASTM D5185m >25 0 2 Lead ppm ASTM D5185m >25 0 <1 Copper ppm ASTM D5185m >100 3 73 Tin ppm ASTM D5185m >100 <1 3 Vanadium ppm ASTM D5185m >10 <1 3 Yellow Metal scalar *Visual NONE NONE NONE Silicon ppm ASTM D5185m >75 2 16	
Titanium ppm ASTM D5185m 0 0 Silver ppm ASTM D5185m 0 0 Aluminum ppm ASTM D5185m >25 0 2 Lead ppm ASTM D5185m >25 0 <1	
Silver ppm ASTM D5185m 0 0 Aluminum ppm ASTM D5185m >25 0 2 Lead ppm ASTM D5185m >25 0 <1 Copper ppm ASTM D5185m >100 3 73 Tin ppm ASTM D5185m >100 <1 3 Vanadium ppm ASTM D5185m >10 <1 3 White Metal scalar *Visual NONE NONE Yellow Metal scalar *Visual NONE NONE Silicon ppm ASTM D5185m >75 2 16	
Aluminum ppm ASTM D5185m >25 0 2 Lead ppm ASTM D5185m >25 0 <10	
Lead ppm ASTM D5185m >25 0 <1	
Copper ppm ASTM D5185m >100 3 73 Tin ppm ASTM D5185m >100 <1	
TinppmASTM D5185m>10<1	
VanadiumppmASTM D5185m00White Metalscalar*VisualNONENONENONEYellow Metalscalar*VisualNONENONENONESiliconppmASTM D5185m>75216	
White Metal scalar *Visual NONE NONE NONE Yellow Metal scalar *Visual NONE NONE NONE Silicon ppm ASTM D5185m >75 2 16	
Yellow Metalscalar*VisualNONENONESiliconppmASTM D5185m>75216	
Silicon ppm ASTM D5185m >75 2 16	
Potassium ppm ASTM D5185m >20 0 1	
Water WC Method >.2 NEG NEG	
Silt scalar *Visual NONE NONE	
Debris scalar *Visual NONE NONE NONE	
Sand/Dirt scalar *Visual NONE NONE	
Appearance scalar *Visual NORML NORML NORML	
Odor scalar *Visual NORML NORML NORML	
Emulsified Water scalar *Visual >.2 NEG NEG	
Sodium ppm ASTM D5185m 1 8	
Boron ppm ASTM D5185m 0 5	
Barium ppm ASTM D5185m 0 0	
Molybdenum ppm ASTM D5185m 0 0	
Manganese ppm ASTM D5185m 1 6	
MagnesiumppmASTM D5185m010	
Calcium ppm ASTM D5185m 35 34	
Phosphorus ppm ASTM D5185m 303 2455	
Zinc ppm ASTM D5185m 0 98	
Sulfur ppm ASTM D5185m 20594 34653	
Visc @ 40°C cSt ASTM D445 143 191	

Submitted By: RENN MASHBURN



JRE - GARNER Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513 Sample No. : JR0212553 Received 4161 AUBURN CHURCH RD : 13 May 2024 Lab Number : 06177444 Tested GARNER, NC : 14 May 2024 Diagnosed Unique Number : 11023497 : 15 May 2024 - Don Baldridge US 27529 Test Package : CONST (Additional Tests: PQ) Contact: RALEIGH SHOP Certificate L2367 To discuss this sample report, contact Customer Service at 1-800-237-1369. sean.betts@jamesriverequipment.com;catherine.anastasio@wearcheck.com * - Denotes test methods that are outside of the ISO 17025 scope of accreditation. T: (919)614-2260 Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012) F: (919)779-5432