

Area

## WEAR NORMAL CONTAMINATION NORMAL FLUID CONDITION NORMAL



RECOMMENDATION

## JOHN DEERE 672GP 1DW672GPTHF681827

Front Front Right 6WD Hub

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JOHN DEERE HY-GARD HYD/TRANS (2 GAL)

| Resample at the next service interval to monitor. ( Customer Sample |
|---|
| Comment: W68750)  |

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| W. | -7 | -1 |   |
|    |    |    |   |

All component wear rates are normal.

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## CONTAMINATION

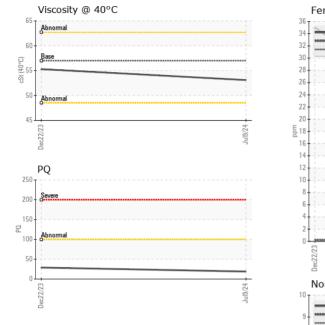
There is no indication of any contamination in the oil.

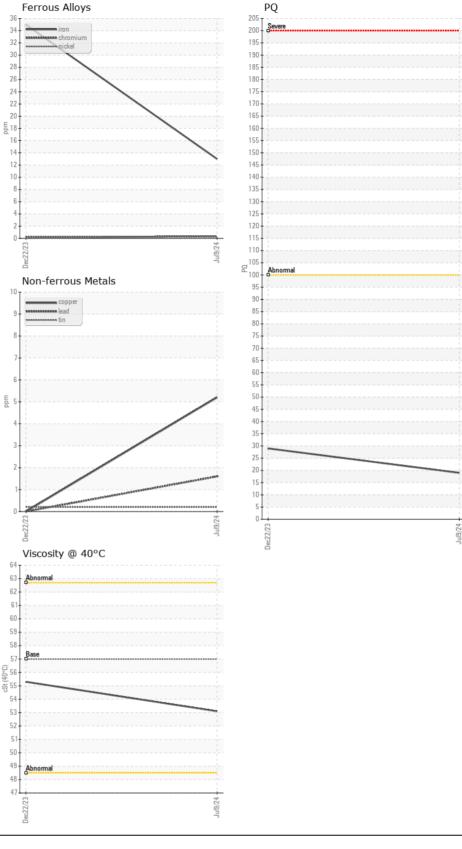
| EL L |     |     |  |  |
|------|-----|-----|--|--|
| FLU  | עונ | COr |  |  |

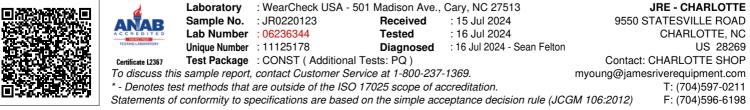
The condition of the oil is acceptable for the time in service.

|  |  |  |   | · · · · ·  |  |          |
|--|--|--|---|--|--|----------|
| Test   | UOM  | Method   | Limit/Abn   | Current  | History1   | History2 |
| Sample Number  |  | Client Info  |   | JR0220123  | JR0192676  |          |
| Sample Date  |  | Client Info  |   | 09 Jul 2024  | 22 Dec 2023  |          |
| Machine Age  | hrs  | Client Info  |   | 9643   | 8974   |          |
| Oil Age  | hrs  | Client Info  |   | 669  | 8974   |          |
| Filter Age   | hrs  | Client Info  |   | 0  | 0  |          |
| Oil Changed  |  | Client Info  |   | Not Changd   | Changed  |          |
| Filter Changed   |  | Client Info  |   | N/A  | N/A  |          |
| Sample Status  |  |  |   | NORMAL   | NORMAL   |          |
| PQ   |  | ASTM D8184   |   | 19   | 29   |          |
| Iron   | ppm  | ASTM D5185m  | >200  | 13   | 35   |          |
| Chromium   | ppm  | ASTM D5185m  | >10   | <1   | <1   |          |
| Nickel   | ppm  | ASTM D5185m  | >10   | <1   | 0  |          |
| Titanium   | ppm  | ASTM D5185m  |   | <1   | 0  |          |
| Silver   | ppm  | ASTM D5185m  |   | <1   | 0  |          |
| Aluminum   | ppm  | ASTM D5185m  |   | 2  | 1  |          |
| Lead   | ppm  | ASTM D5185m  |   | 2  | 0  |          |
| Copper   | ppm  | ASTM D5185m  |   | 5  | 0  |          |
| Tin  | ppm  | ASTM D5185m  |   | <1   | <1   |          |
| Vanadium   | ppm  | ASTM D5185m  |   | 0  | 0  |          |
| White Metal  | scalar   | *Visual  | NONE  | NONE   | NONE   |          |
| Yellow Metal   | scalar   | *Visual  | NONE  | NONE   | NONE   |          |
|  |  |  |   |  |  |          |
| Silicon  | nnm  |  |   |  |  |          |
|  | ppm  | ASTM D5185m  |   | 3  | 8  |          |
| Potassium  | ppm  | ASTM D5185m  | >20   | 1  | 0  |          |
| Water  | ppm  | ASTM D5185m<br>WC Method   | >0.2  | 1<br>NEG   | 0<br>NEG   |          |
| Water<br>Silt  | ppm<br>scalar  | ASTM D5185m<br>WC Method<br>*Visual  | >0.2<br>NONE  | 1<br>NEG<br>NONE   | 0<br>NEG<br>NONE   |          |
| Water<br>Silt<br>Debris  | ppm<br>scalar<br>scalar  | ASTM D5185m<br>WC Method<br>*Visual<br>*Visual   | >0.2<br>NONE<br>NONE  | 1<br>NEG<br>NONE<br>NONE   | 0<br>NEG<br>NONE<br>NONE   |          |
| Water<br>Silt<br>Debris<br>Sand/Dirt   | ppm<br>scalar<br>scalar<br>scalar  | ASTM D5185m<br>WC Method<br>*Visual<br>*Visual<br>*Visual  | >0.2<br>NONE<br>NONE<br>NONE  | 1<br>NEG<br>NONE<br>NONE<br>NONE   | 0<br>NEG<br>NONE<br>NONE   | <br>     |
| Water<br>Silt<br>Debris<br>Sand/Dirt<br>Appearance   | ppm<br>scalar<br>scalar<br>scalar<br>scalar  | ASTM D5185m<br>WC Method<br>*Visual<br>*Visual<br>*Visual<br>*Visual   | >0.2<br>NONE<br>NONE<br>NONE<br>NORML   | 1<br>NEG<br>NONE<br>NONE<br>NONE<br>NORML  | 0<br>NEG<br>NONE<br>NONE<br>NONE<br>NORML  | <br><br> |
| Water<br>Silt<br>Debris<br>Sand/Dirt<br>Appearance<br>Odor   | ppm<br>scalar<br>scalar<br>scalar<br>scalar<br>scalar  | ASTM D5185m<br>WC Method<br>*Visual<br>*Visual<br>*Visual<br>*Visual<br>*Visual  | >0.2<br>NONE<br>NONE<br>NORML<br>NORML  | 1<br>NEG<br>NONE<br>NONE<br>NORE<br>NORML  | 0<br>NEG<br>NONE<br>NONE<br>NONE<br>NORML<br>NORML   | <br>     |
| Water<br>Silt<br>Debris<br>Sand/Dirt<br>Appearance   | ppm<br>scalar<br>scalar<br>scalar<br>scalar  | ASTM D5185m<br>WC Method<br>*Visual<br>*Visual<br>*Visual<br>*Visual   | >0.2<br>NONE<br>NONE<br>NONE<br>NORML   | 1<br>NEG<br>NONE<br>NONE<br>NONE<br>NORML  | 0<br>NEG<br>NONE<br>NONE<br>NONE<br>NORML  | <br><br> |
| Water<br>Silt<br>Debris<br>Sand/Dirt<br>Appearance<br>Odor   | ppm<br>scalar<br>scalar<br>scalar<br>scalar<br>scalar  | ASTM D5185m<br>WC Method<br>*Visual<br>*Visual<br>*Visual<br>*Visual<br>*Visual  | >0.2<br>NONE<br>NONE<br>NORML<br>NORML  | 1<br>NEG<br>NONE<br>NONE<br>NORE<br>NORML  | 0<br>NEG<br>NONE<br>NONE<br>NONE<br>NORML<br>NORML   | <br><br> |
| Water<br>Silt<br>Debris<br>Sand/Dirt<br>Appearance<br>Odor<br>Emulsified Water   | ppm<br>scalar<br>scalar<br>scalar<br>scalar<br>scalar<br>scalar  | ASTM D5185m<br>WC Method<br>*Visual<br>*Visual<br>*Visual<br>*Visual<br>*Visual<br>*Visual   | >0.2<br>NONE<br>NONE<br>NORML<br>NORML  | 1<br>NEG<br>NONE<br>NONE<br>NORML<br>NORML<br>NEG  | 0<br>NEG<br>NONE<br>NONE<br>NORML<br>NORML<br>NEG  |          |
| Water<br>Silt<br>Debris<br>Sand/Dirt<br>Appearance<br>Odor<br>Emulsified Water<br>Sodium   | ppm<br>scalar<br>scalar<br>scalar<br>scalar<br>scalar<br>scalar<br>ppm                                 | ASTM D5185m<br>WC Method<br>*Visual<br>*Visual<br>*Visual<br>*Visual<br>*Visual<br>ASTM D5185m   | >0.2<br>NONE<br>NONE<br>NORML<br>NORML<br>>0.2  | 1<br>NEG<br>NONE<br>NONE<br>NORML<br>NORML<br>NEG<br>0   | 0<br>NEG<br>NONE<br>NONE<br>NORML<br>NORML<br>NEG  |          |
| Water<br>Silt<br>Debris<br>Sand/Dirt<br>Appearance<br>Odor<br>Emulsified Water<br>Sodium<br>Boron  | ppm<br>scalar<br>scalar<br>scalar<br>scalar<br>scalar<br>scalar<br>ppm                                 | ASTM D5185m<br>WC Method<br>*Visual<br>*Visual<br>*Visual<br>*Visual<br>*Visual<br>*Visual<br>ASTM D5185m  | >0.2<br>NONE<br>NONE<br>NORML<br>NORML<br>>0.2  | 1<br>NEG<br>NONE<br>NONE<br>NORML<br>NORML<br>NEG<br>0<br>4  | 0<br>NEG<br>NONE<br>NONE<br>NORML<br>NORML<br>NEG<br><1<br>3   |          |
| Water<br>Silt<br>Debris<br>Sand/Dirt<br>Appearance<br>Odor<br>Emulsified Water<br>Sodium<br>Boron<br>Barium  | ppm<br>scalar<br>scalar<br>scalar<br>scalar<br>scalar<br>scalar<br>ppm<br>ppm                          | ASTM D5185m<br>WC Method<br>*Visual<br>*Visual<br>*Visual<br>*Visual<br>*Visual<br>*Visual<br>ASTM D5185m<br>ASTM D5185m   | >0.2<br>NONE<br>NONE<br>NORML<br>NORML<br>>0.2  | 1<br>NEG<br>NONE<br>NONE<br>NORML<br>NORML<br>NEG<br>0<br>4  | 0<br>NEG<br>NONE<br>NONE<br>NORML<br>NORML<br>NEG<br><1<br>3<br>0  |          |
| Water<br>Silt<br>Debris<br>Sand/Dirt<br>Appearance<br>Odor<br>Emulsified Water<br>Sodium<br>Boron<br>Barium  | ppm<br>scalar<br>scalar<br>scalar<br>scalar<br>scalar<br>scalar<br>ppm<br>ppm<br>ppm                   | ASTM D5185m<br>WC Method<br>*Visual<br>*Visual<br>*Visual<br>*Visual<br>*Visual<br>ASTM D5185m<br>ASTM D5185m<br>ASTM D5185m   | >0.2<br>NONE<br>NONE<br>NORML<br>NORML<br>>0.2  | 1<br>NEG<br>NONE<br>NONE<br>NORML<br>NORML<br>NEG<br>0<br>4<br>0<br>4  | 0<br>NEG<br>NONE<br>NONE<br>NORML<br>NORML<br>NEG<br><1<br>3<br>0<br>0                                   |          |
| Water<br>Silt<br>Debris<br>Sand/Dirt<br>Appearance<br>Odor<br>Emulsified Water<br>Sodium<br>Boron<br>Barium<br>Molybdenum<br>Manganese                         | ppm<br>scalar<br>scalar<br>scalar<br>scalar<br>scalar<br>ppm<br>ppm<br>ppm<br>ppm                      | ASTM D5185m<br>WC Method<br>*Visual<br>*Visual<br>*Visual<br>*Visual<br>*Visual<br>ASTM D5185m<br>ASTM D5185m<br>ASTM D5185m<br>ASTM D5185m  | >0.2<br>NONE<br>NONE<br>NORML<br>NORML<br>>0.2<br>6<br>0<br>0   | 1<br>NEG<br>NONE<br>NONE<br>NORML<br>NORML<br>NEG<br>0<br>4<br>0<br>4<br>0<br><1<br><1                       | 0<br>NEG<br>NONE<br>NONE<br>NORML<br>NORML<br>NEG<br><1<br>3<br>0<br>0<br>0<br><1                        |          |
| Water<br>Silt<br>Debris<br>Sand/Dirt<br>Appearance<br>Odor<br>Emulsified Water<br>Sodium<br>Boron<br>Barium<br>Molybdenum<br>Manganese<br>Magnesium            | ppm<br>scalar<br>scalar<br>scalar<br>scalar<br>scalar<br>ppm<br>ppm<br>ppm<br>ppm                      | ASTM D5185m<br>WC Method<br>*Visual<br>*Visual<br>*Visual<br>*Visual<br>*Visual<br>*Visual<br>ASTM D5185m<br>ASTM D5185m<br>ASTM D5185m<br>ASTM D5185m<br>ASTM D5185m                    | >0.2<br>NONE<br>NONE<br>NORML<br>NORML<br>>0.2<br>6<br>0<br>0<br>145  | 1<br>NEG<br>NONE<br>NONE<br>NORML<br>NORML<br>NEG<br>0<br>4<br>0<br>4<br>0<br><1<br><1<br>92                 | 0<br>NEG<br>NONE<br>NONE<br>NORML<br>NORML<br>NEG<br><1<br>3<br>0<br>0<br>0<br><1<br>104                 |          |
| Water<br>Silt<br>Debris<br>Sand/Dirt<br>Appearance<br>Odor<br>Emulsified Water<br>Sodium<br>Boron<br>Barium<br>Molybdenum<br>Manganese<br>Magnesium            | ppm<br>scalar<br>scalar<br>scalar<br>scalar<br>scalar<br>ppm<br>ppm<br>ppm<br>ppm<br>ppm<br>ppm        | ASTM D5185m<br>WC Method<br>*Visual<br>*Visual<br>*Visual<br>*Visual<br>*Visual<br>ASTM D5185m<br>ASTM D5185m<br>ASTM D5185m<br>ASTM D5185m<br>ASTM D5185m<br>ASTM D5185m                | <ul> <li>&gt;0.2</li> <li>NONE</li> <li>NONE</li> <li>NORML</li> <li>&gt;0.2</li> <li>6</li> <li>0</li> <li>0</li> <li>145</li> <li>3570</li> </ul>               | 1<br>NEG<br>NONE<br>NONE<br>NORML<br>NORML<br>NEG<br>0<br>4<br>0<br><1<br><1<br><1<br>92<br>3197             | 0<br>NEG<br>NONE<br>NONE<br>NORML<br>NORML<br>NEG<br><1<br>3<br>0<br>0<br><1<br>104<br>3509              |          |
| Water<br>Silt<br>Debris<br>Sand/Dirt<br>Appearance<br>Odor<br>Emulsified Water<br>Sodium<br>Boron<br>Barium<br>Molybdenum<br>Manganese<br>Magnesium<br>Calcium | ppm<br>scalar<br>scalar<br>scalar<br>scalar<br>scalar<br>ppm<br>ppm<br>ppm<br>ppm<br>ppm<br>ppm<br>ppm | ASTM D5185m<br>WC Method<br>*Visual<br>*Visual<br>*Visual<br>*Visual<br>*Visual<br>ASTM D5185m<br>ASTM D5185m<br>ASTM D5185m<br>ASTM D5185m<br>ASTM D5185m<br>ASTM D5185m<br>ASTM D5185m | <ul> <li>&gt;0.2</li> <li>NONE</li> <li>NONE</li> <li>NORML</li> <li>&gt;0.2</li> <li>6</li> <li>0</li> <li>0</li> <li>145</li> <li>3570</li> <li>1290</li> </ul> | 1<br>NEG<br>NONE<br>NONE<br>NORML<br>NORML<br>NEG<br>0<br>4<br>0<br>4<br>0<br><1<br><1<br>92<br>3197<br>1013 | 0<br>NEG<br>NONE<br>NONE<br>NORML<br>NORML<br>NEG<br><1<br>3<br>0<br>0<br>0<br><1<br>104<br>3509<br>1104 |          |

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