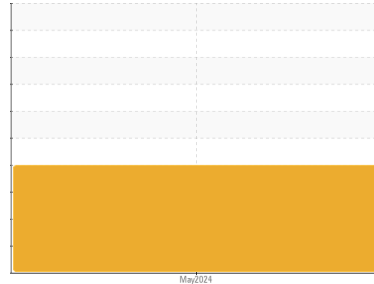


# PROBLEM SUMMARY

Sample Rating Trend

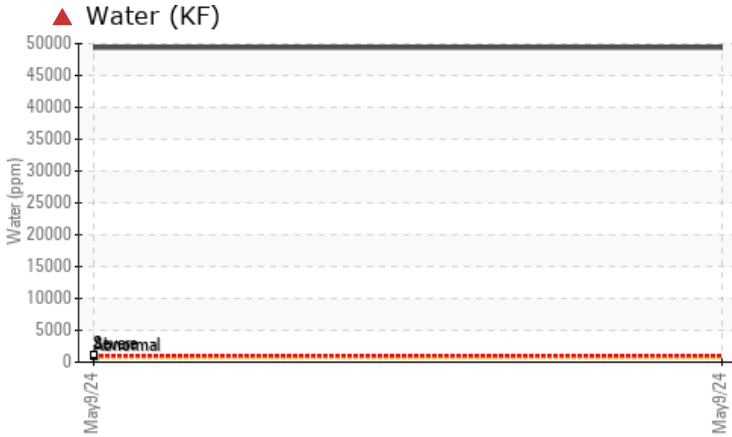


**WATER**



Machine Id  
**JOHN DEERE 310P DOWN UNDER**  
Component  
**Transmission**  
Fluid  
**JOHN DEERE HD SynTran (--- GAL)**

## COMPONENT CONDITION SUMMARY



## RECOMMENDATION

We advise that you check for the source of water entry. We recommend that you drain the fluid from the component if this has not already been done. We recommend an early resample to monitor this condition.

## PROBLEMATIC TEST RESULTS

| Sample Status    |        |            |        | SEVERE  | --- | --- |
|------------------|--------|------------|--------|---------|-----|-----|
| Water            | %      | ASTM D6304 | >0.075 | ▲ 4.94  | --- | --- |
| ppm Water        | ppm    | ASTM D6304 | >750   | ▲ 49400 | --- | --- |
| Emulsified Water | scalar | *Visual    | >0.075 | ▲ 0.2%  | --- | --- |

Customer Id: JAMMAN  
Sample No.: JR0217635  
Lab Number: 06175739  
Test Package: CONST



To manage this report scan the QR code

To discuss the diagnosis or test data:  
Sean Felton +1 919-379-4092  
[sfelton@wearcheckusa.com](mailto:sfelton@wearcheckusa.com)

To change component or sample information:  
Customer Service +1 1-800-237-1369  
[customerservice@wearcheck.com](mailto:customerservice@wearcheck.com)

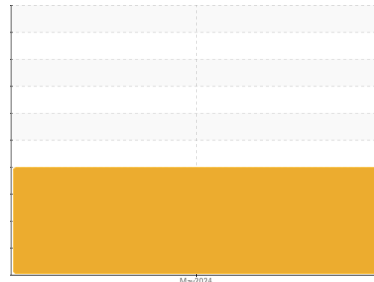
## RECOMMENDED ACTIONS

| Action             | Status | Date | Done By | Description   |
|--------------------|--------|------|---------|---|
| Change Fluid       | ---    | ---  | ?       | We recommend that you drain the fluid from the component if this has not already been done. |
| Resample           | ---    | ---  | ?       | We recommend an early resample to monitor this condition.                                   |
| Check Water Access | ---    | ---  | ?       | We advise that you check for the source of water entry.                                     |

## HISTORICAL DIAGNOSIS

# OIL ANALYSIS REPORT

Sample Rating Trend



**WATER**



Machine Id

**JOHN DEERE 310P DOWN UNDER**

Component

**Transmission**

Fluid

**JOHN DEERE HD SynTran (--- GAL)**

**DIAGNOSIS**

**▲ Recommendation**

We advise that you check for the source of water entry. We recommend that you drain the fluid from the component if this has not already been done. We recommend an early resample to monitor this condition.

**Wear**

All component wear rates are normal.

**▲ Contamination**

Appearance is milky. There is a high concentration of water present in the fluid.

**Fluid Condition**

The fluid is no longer serviceable due to the presence of contaminants.

| SAMPLE INFORMATION |             | method      | limit/base | current            | history1 | history2 |
|--------------------|-------------|-------------|------------|--------------------|----------|----------|
| Sample Number      | Client Info |             |            | <b>JR0217635</b>   | ---      | ---      |
| Sample Date        | Client Info |             |            | <b>09 May 2024</b> | ---      | ---      |
| Machine Age        | hrs         | Client Info |            | <b>0</b>           | ---      | ---      |
| Oil Age            | hrs         | Client Info |            | <b>392</b>         | ---      | ---      |
| Oil Changed        | Client Info |             |            | <b>N/A</b>         | ---      | ---      |
| Sample Status      |             |             |            | <b>SEVERE</b>      | ---      | ---      |

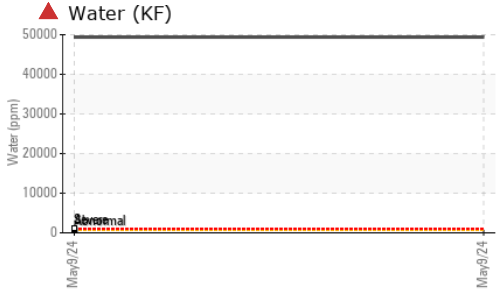
| WEAR METALS |     | method      | limit/base | current      | history1 | history2 |
|-------------|-----|-------------|------------|--------------|----------|----------|
| PQ          |     | ASTM D8184  | >100       | <b>31</b>    | ---      | ---      |
| Iron        | ppm | ASTM D5185m | >61        | <b>39</b>    | ---      | ---      |
| Chromium    | ppm | ASTM D5185m | >10        | <b>&lt;1</b> | ---      | ---      |
| Nickel      | ppm | ASTM D5185m |            | <b>0</b>     | ---      | ---      |
| Titanium    | ppm | ASTM D5185m |            | <b>0</b>     | ---      | ---      |
| Silver      | ppm | ASTM D5185m |            | <b>0</b>     | ---      | ---      |
| Aluminum    | ppm | ASTM D5185m | >20        | <b>6</b>     | ---      | ---      |
| Lead        | ppm | ASTM D5185m | >9         | <b>6</b>     | ---      | ---      |
| Copper      | ppm | ASTM D5185m | >100       | <b>5</b>     | ---      | ---      |
| Tin         | ppm | ASTM D5185m | >3         | <b>4</b>     | ---      | ---      |
| Vanadium    | ppm | ASTM D5185m |            | <b>0</b>     | ---      | ---      |
| Cadmium     | ppm | ASTM D5185m |            | <b>0</b>     | ---      | ---      |

| ADDITIVES  |     | method      | limit/base | current      | history1 | history2 |
|------------|-----|-------------|------------|--------------|----------|----------|
| Boron      | ppm | ASTM D5185m | 168        | <b>126</b>   | ---      | ---      |
| Barium     | ppm | ASTM D5185m |            | <b>3</b>     | ---      | ---      |
| Molybdenum | ppm | ASTM D5185m |            | <b>&lt;1</b> | ---      | ---      |
| Manganese  | ppm | ASTM D5185m |            | <b>2</b>     | ---      | ---      |
| Magnesium  | ppm | ASTM D5185m |            | <b>8</b>     | ---      | ---      |
| Calcium    | ppm | ASTM D5185m | 33         | <b>199</b>   | ---      | ---      |
| Phosphorus | ppm | ASTM D5185m | 330        | <b>306</b>   | ---      | ---      |
| Zinc       | ppm | ASTM D5185m | 0          | <b>140</b>   | ---      | ---      |
| Sulfur     | ppm | ASTM D5185m | 980        | <b>740</b>   | ---      | ---      |


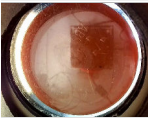
| CONTAMINANTS |     | method      | limit/base | current        | history1 | history2 |
|--------------|-----|-------------|------------|----------------|----------|----------|
| Silicon      | ppm | ASTM D5185m | >21        | <b>9</b>       | ---      | ---      |
| Sodium       | ppm | ASTM D5185m | >30        | <b>9</b>       | ---      | ---      |
| Potassium    | ppm | ASTM D5185m | >20        | <b>35</b>      | ---      | ---      |
| Water        | %   | ASTM D6304  | >0.075     | <b>▲ 4.94</b>  | ---      | ---      |
| ppm Water    | ppm | ASTM D6304  | >750       | <b>▲ 49400</b> | ---      | ---      |

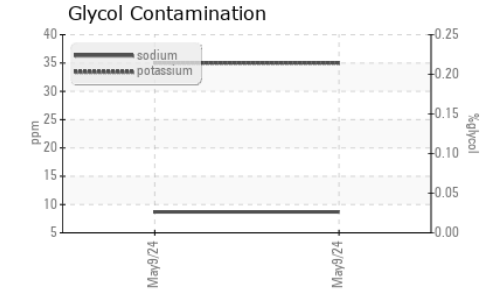
| VISUAL           |        | method  | limit/base | current        | history1 | history2 |
|------------------|--------|---------|------------|----------------|----------|----------|
| White Metal      | scalar | *Visual | NONE       | <b>NONE</b>    | ---      | ---      |
| Yellow Metal     | scalar | *Visual | NONE       | <b>NONE</b>    | ---      | ---      |
| Precipitate      | scalar | *Visual | NONE       | <b>NONE</b>    | ---      | ---      |
| Silt             | scalar | *Visual | NONE       | <b>NONE</b>    | ---      | ---      |
| Debris           | scalar | *Visual | NONE       | <b>NONE</b>    | ---      | ---      |
| Sand/Dirt        | scalar | *Visual | NONE       | <b>NONE</b>    | ---      | ---      |
| Appearance       | scalar | *Visual | NORML      | <b>● MILKY</b> | ---      | ---      |
| Odor             | scalar | *Visual | NORML      | <b>NORML</b>   | ---      | ---      |
| Emulsified Water | scalar | *Visual | >0.075     | <b>▲ 0.2%</b>  | ---      | ---      |
| Free Water       | scalar | *Visual |            | <b>NEG</b>     | ---      | ---      |

# OIL ANALYSIS REPORT

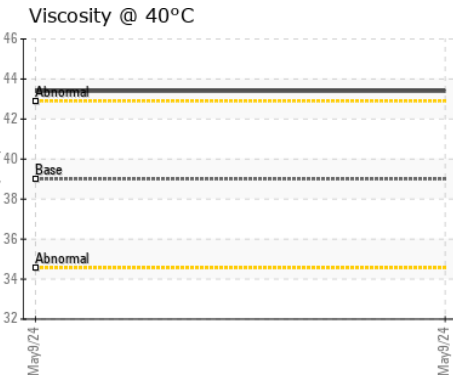
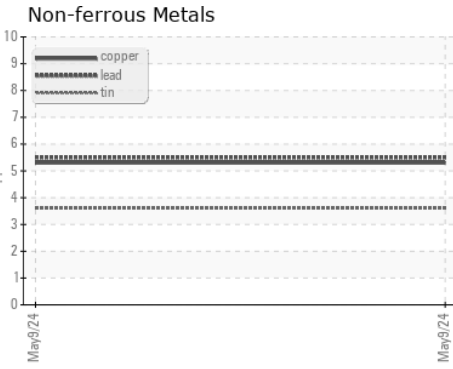
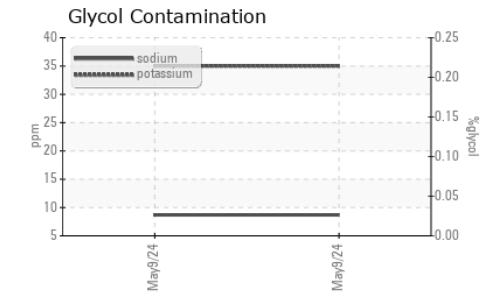
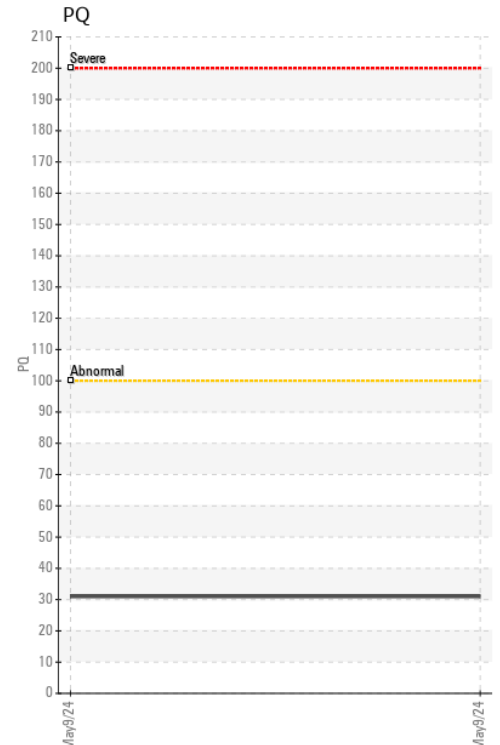
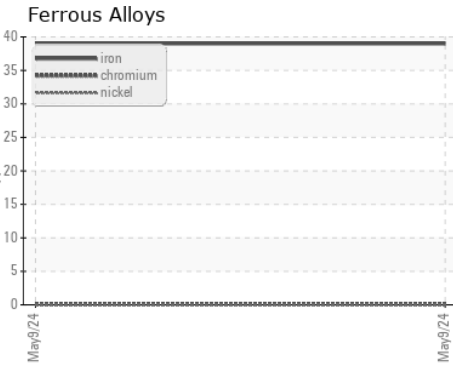
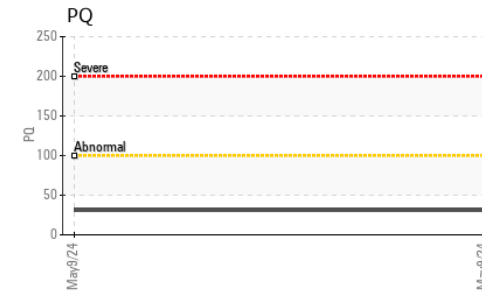


| FLUID PROPERTIES | method | limit/base   | current | history1 | history2 |
|------------------|--------|--------------|---------|----------|----------|
| Visc @ 40°C      | cSt    | ASTM D445 39 | 43.4    | ---      | ---      |

| SAMPLE IMAGES | method | limit/base | current   | history1 | history2 |
|---------------|--------|------------|---|----------|----------|
| Color         |        |            |  | no image | no image |
| Bottom        |        |            |  | no image | no image |



## GRAPHS



**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : JR0217635      **Received** : 10 May 2024  
**Lab Number** : 06175739      **Tested** : 14 May 2024  
**Unique Number** : 11021792      **Diagnosed** : 14 May 2024 - Sean Felton  
**Test Package** : CONST ( Additional Tests: Glycol, KF, PQ )

**JRE - MANASSAS PARK**  
 9107 OWENS DRIVE  
 MANASSAS PARK, VA  
 US 20111  
 Contact: DON VEST  
 dvest@jamesriverequipment.com  
 T: (703)631-8500  
 F: (703)631-4715

To discuss this sample report, contact Customer Service at 1-800-237-1369.

\* - Denotes test methods that are outside of the ISO 17025 scope of accreditation.  
 Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)