

# **PROBLEM SUMMARY**

Sample Rating Trend

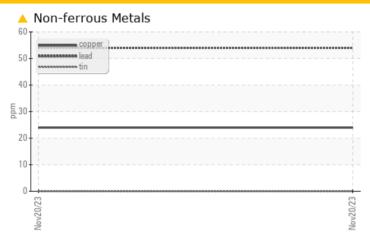
WEAR



Machine Id
A-322
Component
Front Axle

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

## COMPONENT CONDITION SUMMARY



### RECOMMENDATION

No corrective action is recommended at this time. Resample at the next service interval to monitor.

| PROBLEMATIC TEST RESULTS |     |             |     |             |  |  |  |  |  |
|--------------------------|-----|-------------|-----|-------------|--|--|--|--|--|
| Sample Status            |     |             |     | ABNORMAL    |  |  |  |  |  |
| Lead                     | ppm | ASTM D5185m | >25 | <b>^</b> 54 |  |  |  |  |  |

Customer Id: DUKRAL Sample No.: WC0828494 Lab Number: 06015511 Test Package: CONST

To manage this report scan the QR code

To discuss the diagnosis or test data: Jonathan Hester +1 919-379-4092 x4092 jhester@wearcheckusa.com

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

## RECOMMENDED ACTIONS

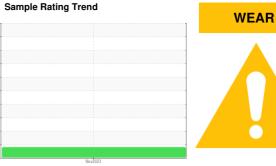
There are no recommended actions for this sample.

## HISTORICAL DIAGNOSIS



# **OIL ANALYSIS REPORT**

**NDT** 



Machine Id **A-322**Component

**Front Axle** 

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

# DIAGNOSIS

#### Recommendation

No corrective action is recommended at this time. Resample at the next service interval to monitor.

#### A Waar

The lead level is abnormal. All other component wear rates are normal.

### Contamination

There is no indication of any contamination in the oil.

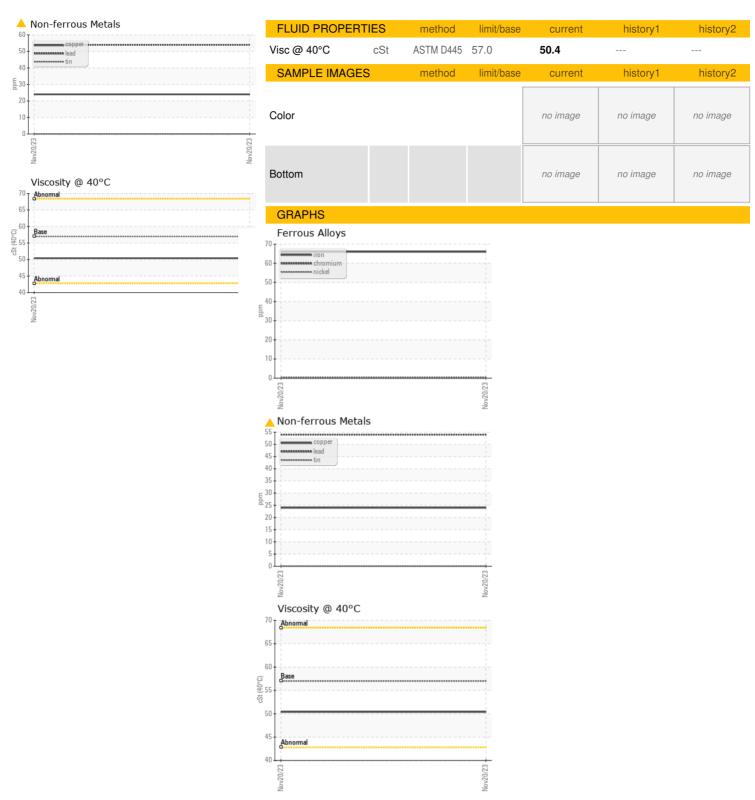
#### **Fluid Condition**

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

| AL)                                    |           |             |               | Nov2023      |          |          |
|--|-----------|-------------|---------------|--------------|----------|----------|
| SAMPLE INFOR                           | MATION    | method      | limit/base    | current      | history1 | history2 |
| Sample Number                          |           | Client Info |               | WC0828494    |          |          |
| Sample Date                            |           | Client Info |               | 20 Nov 2023  |          |          |
| Machine Age                            | hrs       | Client Info |               | 6566         |          |          |
| Oil Age                                | hrs       | Client Info |               | 566          |          |          |
| Oil Changed                            |           | Client Info |               | Not Changd   |          |          |
| Sample Status                          |           |             |               | ABNORMAL     |          |          |
| CONTAMINATIO                           | N         | method      | limit/base    | current      | history1 | history2 |
| Nater                                  |           | WC Method   | >0.2          | NEG          |          |          |
| WEAR METALS                            |           | method      | limit/base    | current      | history1 | history2 |
| ron                                    | ppm       | ASTM D5185m | >500          | 66           |          |          |
| Chromium                               | ppm       | ASTM D5185m | >10           | <1           |          |          |
| Nickel                                 | ppm       | ASTM D5185m | >10           | 0            |          |          |
| Γitanium                               | ppm       | ASTM D5185m |               | <1           |          |          |
| Silver                                 | ppm       | ASTM D5185m |               | 0            |          |          |
| Aluminum                               | ppm       | ASTM D5185m | >25           | 1            |          |          |
| _ead                                   | ppm       | ASTM D5185m | >25           | <u>^</u> 54  |          |          |
| Copper                                 | ppm       | ASTM D5185m | >50           | 24           |          |          |
| Γin                                    | ppm       | ASTM D5185m | >10           | 0            |          |          |
| /anadium                               | ppm       | ASTM D5185m |               | 0            |          |          |
| Cadmium                                | ppm       | ASTM D5185m |               | 0            |          |          |
| ADDITIVES                              | '''       | method      | limit/base    | current      | history1 | history2 |
| Boron                                  | 10 10 100 | ASTM D5185m | 6             | 9            |          |          |
| Barium                                 | ppm       |             | 0             | 0            |          |          |
|  | ppm       | ASTM D5185m |               | -            |          |          |
| Molybdenum                             | ppm       |             | 0             | <1<br><1     |          |          |
| Manganese                              | ppm       | ASTM D5185m | 1 1 5         | 102          |          |          |
| Magnesium                              | ppm       | ASTM D5185m | 145           | -            |          |          |
| Calcium                                | ppm       | ASTM D5185m | 3570          | 3479         |          |          |
| Phosphorus                             | ppm       | ASTM D5185m | 1290          | 1060         |          |          |
| Zinc                                   | ppm       |             | 1640          | 1251         |          |          |
| Sulfur                                 | ppm       | ASTM D5185m |               | 4130         |          |          |
| CONTAMINANT                            | S         | method      | limit/base    | current      | history1 | history2 |
| Silicon                                | ppm       | ASTM D5185m | >75           | 6            |          |          |
| Sodium                                 | ppm       | ASTM D5185m |               | <1           |          |          |
| Potassium                              | ppm       | ASTM D5185m | >20           | 3            |          |          |
| VISUAL                                 |           | method      | limit/base    | current      | history1 | history2 |
| White Metal                            | scalar    | *Visual     | NONE          | NONE         |          |          |
| Yellow Metal                           | scalar    | *Visual     | NONE          | NONE         |          |          |
| Precipitate                            | scalar    | *Visual     | NONE          | NONE         |          |          |
| Silt                                   | scalar    | *Visual     | NONE          | NONE         |          |          |
| Debris                                 | scalar    | *Visual     | NONE          | NONE         |          |          |
| Sand/Dirt                              | scalar    | *Visual     | NONE          | NONE         |          |          |
|  | scalar    | *Visual     | NORML         | NORML        |          |          |
| Appearance                             | Scalai    |             |               |              |          |          |
| • •                                    | scalar    | *Visual     | NORML         | NORML        |          |          |
| Appearance<br>Odor<br>Emulsified Water |           | *Visual     | NORML<br>>0.2 | NORML<br>NEG |          |          |



# **OIL ANALYSIS REPORT**







Laboratory Sample No. Lab Number

: WC0828494 : 06015511 Unique Number : 10754655 Test Package : CONST

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 22 Nov 2023 : 27 Nov 2023 Diagnosed

Diagnostician : Jonathan Hester

**DUKE LAZZARA** 4201 FAYETTEVILLE RD RALEIGH, NC

US 27603 Contact: NICK DIXON

NICK.DIXON@DUKELAZZAM.COM T: (919)760-7797

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)

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