



| | |
|-----------------|-----------------|
| WEAR | ABNORMAL |
| CONTAMINATION | ABNORMAL |
| FLUID CONDITION | NORMAL |

Machine Id
JOHN DEERE 3023H LV3203H496054
 Component
Hydraulic System
 Fluid
JOHN DEERE HY-GARD HYD/TRANS (--- GAL)

RECOMMENDATION

We recommend you service the filters on this component. Resample at the next service interval to monitor. We were unable to perform a particle count due to a high concentration of particles present in this sample.

| Test | UOM | Method | Limit/Abn | Current | History1 | History2 |
|----------------|-----|-------------|-----------|--------------------|----------|----------|
| Sample Number | | Client Info | | JR0209924 | --- | --- |
| Sample Date | | Client Info | | 08 Jul 2024 | --- | --- |
| Machine Age | hrs | Client Info | | 1300 | --- | --- |
| Oil Age | hrs | Client Info | | 0 | --- | --- |
| Filter Age | hrs | Client Info | | 0 | --- | --- |
| Oil Changed | | Client Info | | Not Changd | --- | --- |
| Filter Changed | | Client Info | | Not Changd | --- | --- |
| Sample Status | | | | ABNORMAL | --- | --- |

WEAR

The iron level is abnormal. The copper level is abnormal.

| | | | | | | |
|--------------|--------|-------------|------|--------------|-----|-----|
| PQ | | ASTM D8184 | | 35 | --- | --- |
| Iron | ppm | ASTM D5185m | >20 | ▲ 77 | --- | --- |
| Chromium | ppm | ASTM D5185m | >10 | <1 | --- | --- |
| Nickel | ppm | ASTM D5185m | >10 | <1 | --- | --- |
| Titanium | ppm | ASTM D5185m | | <1 | --- | --- |
| Silver | ppm | ASTM D5185m | | 6 | --- | --- |
| Aluminum | ppm | ASTM D5185m | >10 | 7 | --- | --- |
| Lead | ppm | ASTM D5185m | >10 | 3 | --- | --- |
| Copper | ppm | ASTM D5185m | >75 | ▲ 102 | --- | --- |
| Tin | ppm | ASTM D5185m | >10 | 1 | --- | --- |
| Vanadium | ppm | ASTM D5185m | | 0 | --- | --- |
| White Metal | scalar | *Visual | NONE | NONE | --- | --- |
| Yellow Metal | scalar | *Visual | NONE | NONE | --- | --- |

CONTAMINATION

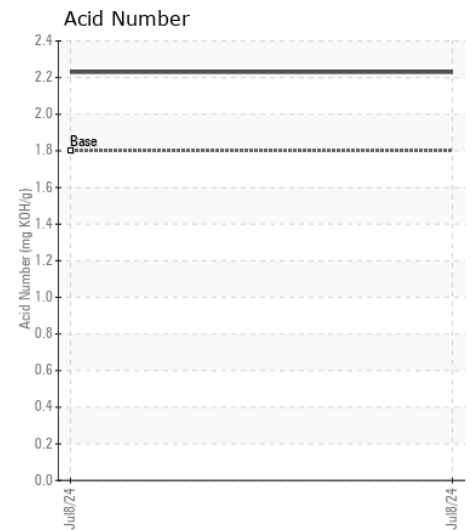
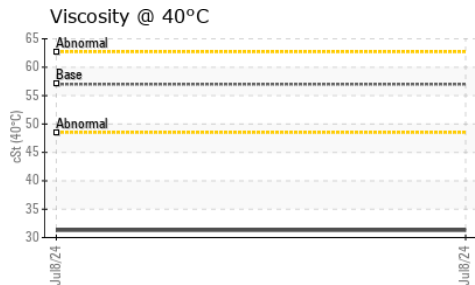
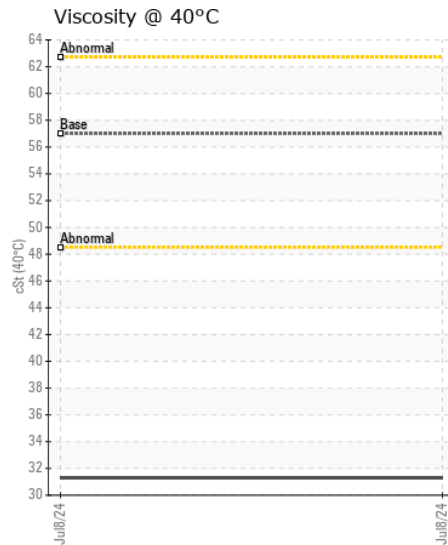
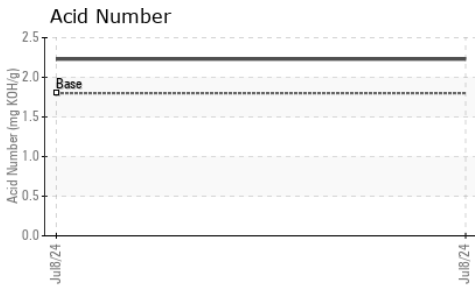
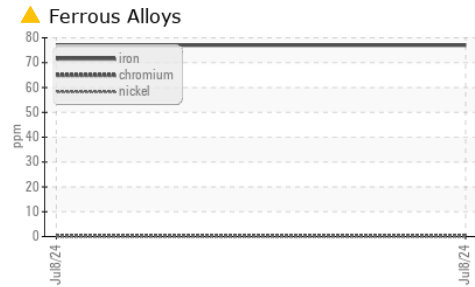
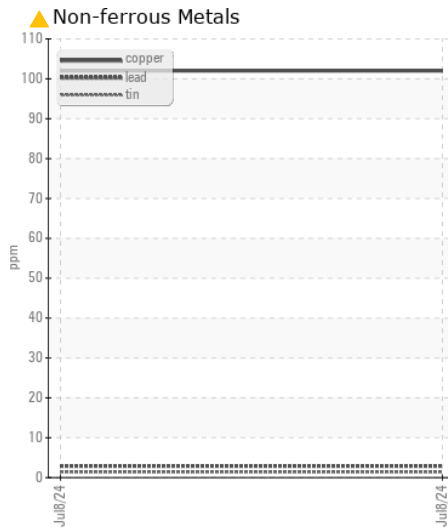
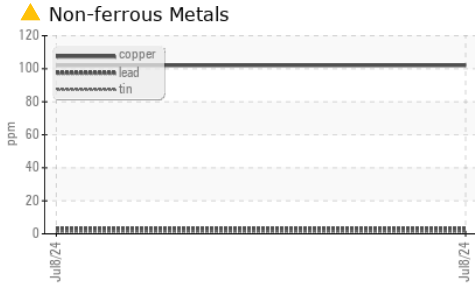
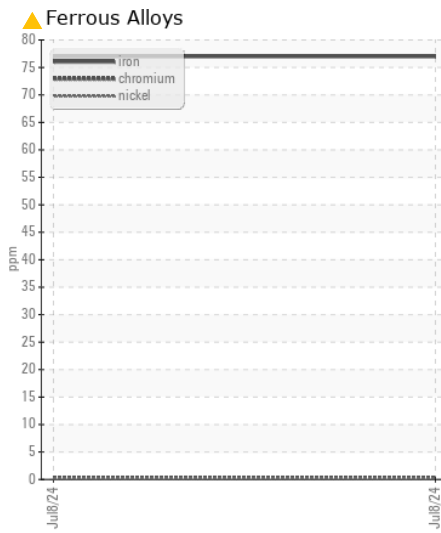
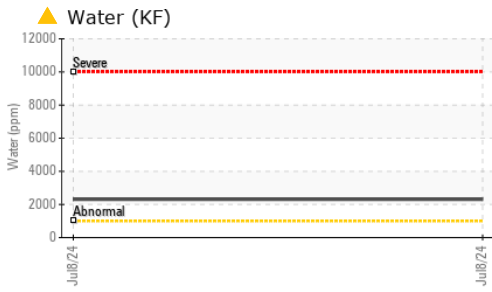
There is a light concentration of water present in the oil. Moderate concentration of visible dirt/debris present in the oil.

| | | | | | | |
|------------------|--------|-------------|-------|----------------|-----|-----|
| Silicon | ppm | ASTM D5185m | >20 | 9 | --- | --- |
| Potassium | ppm | ASTM D5185m | >20 | 6 | --- | --- |
| Water | % | ASTM D6304 | >0.1 | ▲ 0.231 | --- | --- |
| ppm Water | ppm | ASTM D6304 | >1000 | ▲ 2310 | --- | --- |
| Silt | scalar | *Visual | NONE | NONE | --- | --- |
| Debris | scalar | *Visual | NONE | ▲ MODER | --- | --- |
| Sand/Dirt | scalar | *Visual | NONE | NONE | --- | --- |
| Appearance | scalar | *Visual | NORML | NORML | --- | --- |
| Odor | scalar | *Visual | NORML | NORML | --- | --- |
| Emulsified Water | scalar | *Visual | >0.1 | 0.2% | --- | --- |

FLUID CONDITION

The AN level is acceptable for this fluid. The condition of the oil is acceptable for the time in service.

| | | | | | | |
|------------------|----------|-------------|------|--------------|-----|-----|
| Sodium | ppm | ASTM D5185m | | 11 | --- | --- |
| Boron | ppm | ASTM D5185m | 6 | 3 | --- | --- |
| Barium | ppm | ASTM D5185m | 0 | 0 | --- | --- |
| Molybdenum | ppm | ASTM D5185m | 0 | <1 | --- | --- |
| Manganese | ppm | ASTM D5185m | | 2 | --- | --- |
| Magnesium | ppm | ASTM D5185m | 145 | 64 | --- | --- |
| Calcium | ppm | ASTM D5185m | 3570 | 3066 | --- | --- |
| Phosphorus | ppm | ASTM D5185m | 1290 | 1097 | --- | --- |
| Zinc | ppm | ASTM D5185m | 1640 | 1195 | --- | --- |
| Sulfur | ppm | ASTM D5185m | | 4102 | --- | --- |
| Acid Number (AN) | mg KOH/g | ASTM D8045 | 1.8 | 2.23 | --- | --- |
| Visc @ 40°C | cSt | ASTM D445 | 57.0 | 31.3 | --- | --- |



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : JR0209924 **Received** : 10 Jul 2024
Lab Number : 06232190 **Tested** : 11 Jul 2024
Unique Number : 11115683 **Diagnosed** : 11 Jul 2024 - Don Baldrige
Test Package : MOBCE (Additional Tests: KF, PQ)

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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