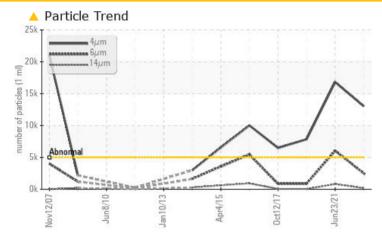


JOHN DEERE 000993

Hydraulic System Fluid TDH FLUID SAE 75W80 (68 GAL)

COMPONENT CONDITION SUMMARY



Oil Cleanliness

RECOMMENDATION

No corrective action is recommended at this time. Oil and filter change at the time of sampling has been noted. Resample at the next service interval to monitor.

PROBLEMATIC TEST RESULTS Sample Status ABNORMAL NORMAL ABNORMAL Particles >4µm ASTM D7647 >5000 13032 **16819** 7851 · 🔺 Particles >6µm ASTM D7647 >1300 2505 ▲ 6050 863 ASTM D7647 >160 55 Particles >14µm 196 **A** 816 Particles >21µm ASTM D7647 >40 **6 3**07 15

ISO 4406 (c) >19/17/14 🔺 21/19/15 🔺 21/20/17

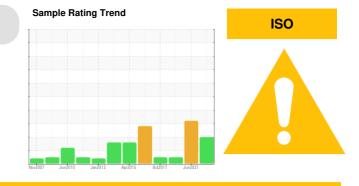
Customer Id: CJMHAM Sample No.: WC0823936 Lab Number: 05997328 Test Package: CONST



To manage this report scan the QR code

To discuss the diagnosis or test data: Don Baldridge +1 don.b505@comcast.net

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



20/17/13

| RECOMMENDED ACTIONS | | | | | | | |
|---------------------|--------|------|---------|---|--|--|--|
| Action | Status | Date | Done By | Description | | | |
| Change Fluid | | | ? | Oil and filter change at the time of sampling has been noted. | | | |
| Change Filter | | | ? | Oil and filter change at the time of sampling has been noted. | | | |

HISTORICAL DIAGNOSIS



23 Jun 2021 Diag: Angela Borella

No corrective action is recommended at this time. The filter change at the time of sampling has been noted. Resample at the next service interval to monitor.Light concentration of visible metal present. All component wear rates are normal. There is a high amount of particulates present in the oil. The AN level is acceptable for this fluid. The condition of the oil is acceptable for the time in service.



view report

12 Sep 2018 Diag: Don Baldridge



Resample at the next service interval to monitor.All component wear rates are normal. The amount and size of particulates present in the system are acceptable. There is no indication of any contamination in the oil. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

12 Oct 2017 Diag: Don Baldridge





Resample at the next service interval to monitor.All component wear rates are normal. The amount and size of particulates present in the system are acceptable. There is no indication of any contamination in the oil. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.





OIL ANALYSIS REPORT

Sample Rating Trend

ISO

JOHN DEERE 000993

Hydraulic System Fluid TDH FLUID SAE 75W80 (68 GAL)

DIAGNOSIS

A Recommendation

No corrective action is recommended at this time. Oil and filter change at the time of sampling has been noted. Resample at the next service interval to monitor.

Wear

All component wear rates are normal.

Contamination

There is a high amount of particulates present in the oil.

Fluid Condition

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

| | | Nov2007 | Jun2010 Jan2013 | Apr2015 Oct2017 J | un2021 | |
|--|-------------------|---|--|---|---|--|
| SAMPLE INFORM | IATION | method | limit/base | current | history1 | history2 |
| Sample Number | | Client Info | | WC0823936 | WC0583974 | WCMC170781 |
| Sample Date | | Client Info | | 20 Oct 2023 | 23 Jun 2021 | 12 Sep 2018 |
| Machine Age | hrs | Client Info | | 7723 | 7469 | 7024 |
| Oil Age | hrs | Client Info | | 1000 | 500 | 0 |
| Oil Changed | | Client Info | | Changed | Not Changd | Changed |
| Sample Status | | | | ABNORMAL | ABNORMAL | NORMAL |
| WEAR METALS | | method | limit/base | current | history1 | history2 |
| Iron | ppm | ASTM D5185m | >20 | 10 | 7 | 2 |
| Chromium | ppm | ASTM D5185m | >10 | <1 | <1 | 0 |
| Nickel | ppm | ASTM D5185m | >10 | 0 | 0 | <1 |
| Titanium | ppm | ASTM D5185m | | 0 | 0 | 0 |
| Silver | ppm | ASTM D5185m | | <1 | <1 | 0 |
| Aluminum | ppm | ASTM D5185m | >10 | <1 | <1 | <1 |
| Lead | ppm | ASTM D5185m | >10 | <1 | 1 | 0 |
| Copper | ppm | ASTM D5185m | >75 | 5 | 2 | <1 |
| Tin | ppm | ASTM D5185m | >10 | 0 | <1 | <1 |
| Antimony | ppm | ASTM D5185m | | | 0 | 0 |
| Vanadium | ppm | ASTM D5185m | | 0 | 0 | 0 |
| Cadmium | ppm | ASTM D5185m | | <1 | 0 | 0 |
| ADDITIVES | | method | limit/base | current | history1 | history2 |
| Boron | ppm | ASTM D5185m | 10 | 6 | 12 | 2 |
| Barium | ppm | ASTM D5185m | 10 | 0 | 0 | 0 |
| Molybdenum | ppm | ASTM D5185m | 10 | 2 | 2 | <1 |
| Manganese | ppm | ASTM D5185m | | 0 | <1 | <1 |
| Magnesium | ppm | ASTM D5185m | 100 | 20 | 16 | <1 |
| Calcium | ppm | ASTM D5185m | 3500 | 1780 | 1883 | 134 |
| Phosphorus | ppm | ASTM D5185m | 1150 | 720 | 809 | 508 |
| Zinc | ppm | ASTM D5185m | 1150 | 849 | 842 | 226 |
| Sulfur | ppm | ASTM D5185m | 5000 | 4930 | 4380 | 225 |
| | | | | 4930 | 4300 | 695 |
| CONTAMINANTS | | method | limit/base | current | 4360 history1 | 695 history2 |
| | ppm | method ASTM D5185m | limit/base | | | |
| Silicon | | | limit/base | current | history1 | history2 |
| Silicon Sodium | ppm | ASTM D5185m | limit/base >20 | current 3 | history1 3 | <mark>history2</mark> <1 |
| Silicon Sodium | ppm ppm ppm | ASTM D5185m ASTM D5185m | limit/base >20 | current 3 0 | history1 3 2 | <mark>history2</mark> <1 <1 |
| Silicon Sodium Potassium FLUID CLEANLIN | ppm ppm ppm | ASTM D5185m ASTM D5185m ASTM D5185m | limit/base >20 >20 | current 3 0 2 | history1 3 2 <1 | history2 <1 <1 1 |
| Silicon Sodium Potassium FLUID CLEANLIN Particles >4µm | ppm ppm ppm | ASTM D5185m ASTM D5185m ASTM D5185m method | limit/base >20 >20 limit/base | current 3 0 2 current | history1 3 2 <1 history1 | history2 <1 <1 1 history2 |
| Silicon Sodium Potassium FLUID CLEANLIN Particles >4µm Particles >6µm Particles >14µm | ppm ppm ppm | ASTM D5185m ASTM D5185m ASTM D5185m method ASTM D7647 | limit/base >20 >20 limit/base >5000 | current 3 0 2 current 13032 | history1 3 2 <1 history1 ▲ 16819 | history2 <1 <1 1 history2 7851 |
| Silicon Sodium Potassium FLUID CLEANLIN Particles >4µm Particles >6µm Particles >14µm | ppm ppm ppm | ASTM D5185m ASTM D5185m ASTM D5185m method ASTM D7647 ASTM D7647 | limit/base >20 >20 limit/base >5000 >1300 >160 | current 3 0 2 current ▲ 13032 ▲ 2505 | history1 3 2 <1 history1 ▲ 16819 ▲ 6050 | history2 <1 <1 1 history2 7851 863 |
| Silicon Sodium Potassium FLUID CLEANLIN Particles >4µm Particles >6µm Particles >14µm Particles >21µm | ppm ppm ppm | ASTM D5185m ASTM D5185m ASTM D5185m method ASTM D7647 ASTM D7647 ASTM D7647 | limit/base >20 >20 limit/base >5000 >1300 >160 | current 3 0 2 current ▲ 13032 ▲ 2505 ▲ 196 | history1 3 2 <1 history1 ▲ 16819 ▲ 6050 ▲ 816 | history2 <1 <1 1 history2 7851 863 55 |
| Silicon Sodium Potassium | ppm ppm ppm | ASTM D5185m ASTM D5185m ASTM D5185m Method ASTM D7647 ASTM D7647 ASTM D7647 ASTM D7647 | limit/base >20 >20 limit/base >5000 >1300 >160 >40 >10 | current 3 0 2 current 13032 2505 196 56 | history1 3 2 <1 history1 ▲ 16819 ▲ 6050 ▲ 816 ▲ 307 | history2 <1 <1 1 history2 7851 863 55 55 15 |
| Silicon Sodium Potassium FLUID CLEANLIN Particles >4µm Particles >6µm Particles >14µm Particles >21µm Particles >38µm Particles >71µm | ppm ppm ppm | ASTM D5185m ASTM D5185m ASTM D5185m ASTM D7647 ASTM D7647 ASTM D7647 ASTM D7647 ASTM D7647 | limit/base >20 >20 limit/base >5000 >1300 >160 >40 >10 | current 3 0 2 current 13032 2505 196 56 2 | history1 3 2 <1 history1 ▲ 16819 ▲ 6050 ▲ 816 ▲ 307 ▲ 26 | history2 <1 |
| Silicon Sodium Potassium FLUID CLEANLIN Particles >4µm Particles >6µm Particles >14µm Particles >21µm Particles >38µm | ppm ppm ESS | ASTM D5185m ASTM D5185m ASTM D5185m Method ASTM D7647 ASTM D7647 ASTM D7647 ASTM D7647 ASTM D7647 ASTM D7647 | limit/base >20 >20 limit/base >5000 >1300 >160 >40 >10 >3 | current 3 0 2 current ▲ 13032 ▲ 2505 ▲ 196 ▲ 56 2 0 0 0 0 0 0 0 0 | history1 3 2 <1 | history2 <1 |



Nov12/07

Al 3.5

4 0

Acid Number (mg KOH/g) 7.5 1.5 1.0 1.0 B

0.5

0.0

58 56

54

46

44 Abno

42

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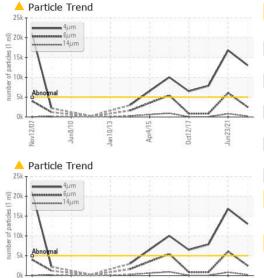
Nov12/07

Base

Nov12/07

Acid Number

OIL ANALYSIS REPORT

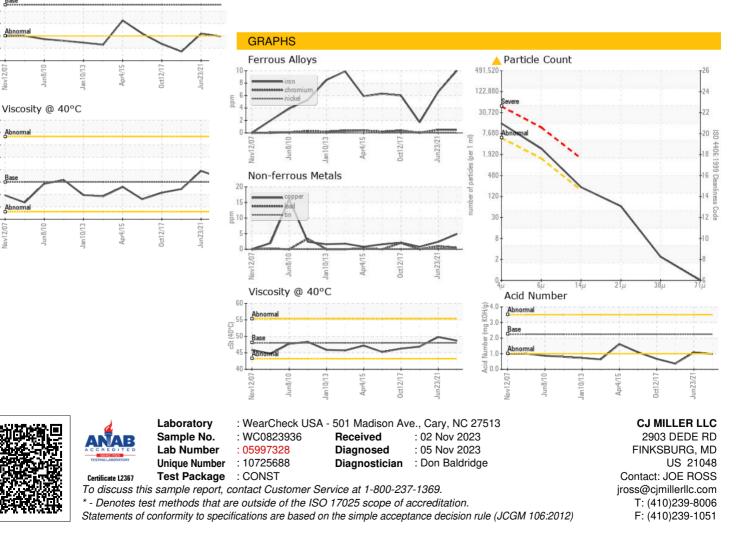


lan10/13

| VISUAL | | method | limit/base | current | history1 | history2 |
|------------------|--------|-----------|------------|---------|----------|----------|
| White Metal | scalar | *Visual | NONE | NONE | 🔺 LIGHT | NONE |
| Yellow Metal | scalar | *Visual | NONE | NONE | NONE | NONE |
| Precipitate | scalar | *Visual | NONE | NONE | NONE | NONE |
| Silt | scalar | *Visual | NONE | NONE | NONE | NONE |
| Debris | scalar | *Visual | NONE | NONE | LIGHT | VLITE |
| Sand/Dirt | scalar | *Visual | NONE | NONE | NONE | NONE |
| Appearance | scalar | *Visual | NORML | NORML | NORML | NORML |
| Odor | scalar | *Visual | NORML | NORML | NORML | NORML |
| Emulsified Water | scalar | *Visual | >0.1 | NEG | NEG | NEG |
| Free Water | scalar | *Visual | | NEG | NEG | NEG |
| FLUID PROPERTIES | | method | limit/base | current | history1 | history2 |
| Visc @ 40°C | cSt | ASTM D445 | 48 | 48.7 | 49.8 | 46.88 |
| SAMPLE IMAGES | | method | limit/base | current | history1 | history2 |
| Color | | | | | | |

Bottom

Jun23/21



Submitted By: JOE ROSS

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