

WEAR CONTAMINATION FLUID CONDITION

ABNORMAL

ABNORMAL

NORMAL

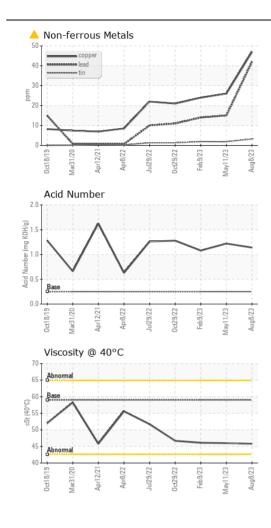


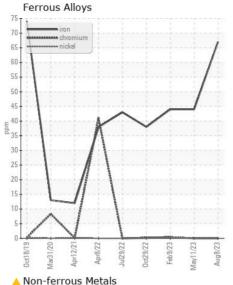
JOHN DEERE 744K 047-0043

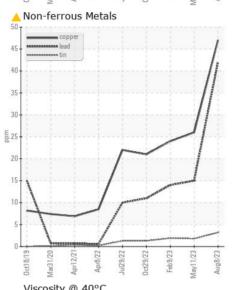
Hydraulic System

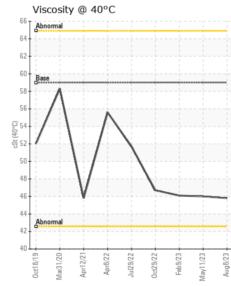
SCHAEFFER 315 SIMPLEX SUPREME (--- GAL)

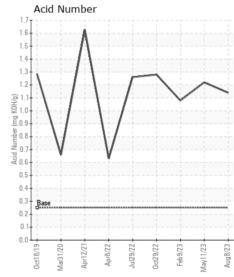
| SCHAEFFER 315 SIMPLEX SUI | PREME ((| GAL) | | | | | |
|---|-----------------------|----------|-----------------------|-----------|----------------------|-----------------------|-----------------------|
| RECOMMENDATION | Test Sample Number | UOM | Method Client Info | Limit/Abn | Current WC0815006 | History1 WC0815240 | History2 WC0750706 |
| 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. We were unable to perform a particle count due to a high concentration of particles present in this sample. | Sample Date | | Client Info | | 08 Aug 2023 | | 09 Feb 2023 |
| | Machine Age | hrs | Client Info | | 14298 | 13300 | 12149 |
| | Oil Age | hrs | Client Info | | 0 | 0 | 0 |
| | Filter Age | hrs | Client Info | | 0 | 0 | 0 |
| | Oil Changed | | Client Info | | Not Changd | Not Changd | Not Changd |
| | Filter Changed | | Client Info | | Changed | Changed | Changed |
| | Sample Status | | | | ABNORMAL | ABNORMAL | ABNORMAL |
| WEAR | Iron | ppm | ASTM D5185m | >71 | 67 | 44 | 44 |
| Bearing and/or bushing wear is indicated. All other component wear rates are normal. | Chromium | ppm | ASTM D5185m | >11 | 0 | 0 | <1 |
| | Nickel | ppm | ASTM D5185m | >6 | 0 | 0 | <1 |
| | Titanium | ppm | ASTM D5185m | | 0 | 0 | 0 |
| | Silver | ppm | ASTM D5185m | | 0 | 0 | 0 |
| | Aluminum | ppm | ASTM D5185m | >11 | <1 | <1 | 1 |
| | Lead | ppm | ASTM D5185m | >13 | 42 | <u> </u> | <u> </u> |
| | Copper | ppm | ASTM D5185m | >21 | 4 7 | <u> </u> | <u></u> 24 |
| | Tin | ppm | | >5 | 3 | 2 | 2 |
| | Vanadium | ppm | ASTM D5185m | | <1 | 0 | 0 |
| | White Metal | scalar | *Visual | NONE | NONE | MODER | NONE |
| | Yellow Metal | scalar | *Visual | NONE | NONE | NONE | NONE |
| CONTAMINATION | Silicon | ppm | ASTM D5185m | >24 | 4 | 4 | 4 |
| | Potassium | ppm | ASTM D5185m | >20 | 0 | <1 | <1 |
| Moderate concentration of visible dirt/debris present in the oil. | Water | | WC Method | >0.075 | NEG | NEG | NEG |
| | Particles >4µm | | ASTM D7647 | >80000 | | | 8460 |
| | Particles >6µm | | ASTM D7647 | >5000 | | | 1800 |
| | Particles >14μm | | ASTM D7647 | >640 | | | 103 |
| | Particles >21µm | | ASTM D7647 | >160 | | | 25 |
| | Particles >38μm | | ASTM D7647 | >40 | | | 1 |
| | Particles >71μm | | ASTM D7647 | >10 | | | 0 |
| | Oil Cleanliness | | ISO 4406 (c) | >23/19/16 | | | 20/18/14 |
| | Silt | scalar | *Visual | NONE | NONE | NONE | NONE |
| | Debris | scalar | *Visual | NONE | ▲ MODER | NONE | NONE |
| | 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 | >0.075 | NEG | NEG | NEG |
| FLUID CONDITION | Sodium | ppm | ASTM D5185m | >21 | 4 | 2 | 3 |
| | Boron | ppm | ASTM D5185m | | 0 | 0 | <1 |
| The AN level is acceptable for this fluid. The condition of the oil is suitable for further service. | Barium | ppm | ASTM D5185m | | 0 | 0 | 0 |
| | Molybdenum | ppm | ASTM D5185m | 0 | <1 | <1 | <1 |
| | Manganese | ppm | ASTM D5185m | | <1 | <1 | <1 |
| | Magnesium | ppm | ASTM D5185m | 0 | 90 | 84 | 91 |
| | Calcium | ppm | ASTM D5185m | | 3497 | 3476 | 3428 |
| | Phosphorus | ppm | ASTM D5185m | | 1034 | 1059 | 995 |
| | Zinc | ppm | ASTM D5185m | | 1248 | 1303 | 1261 |
| | Sulfur | ppm | ASTM D5185m | 3800 | 4170 | 4160 | 4144 |
| | Acid Number (AN) | mg KOH/g | ASTM D8045 | 0.25 | 1.14 | 1.22 | 1.08 |
| | Visc @ 40°C | cSt | ASTM D445 | 59 | 45.8 | 46.0 | 46.1 |















Certificate L2367

Laboratory Sample No.

: WC0815006 Lab Number : 05935301 Unique Number: 10620572 Test Package : CONST

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received **Tested**

: 25 Aug 2023 Diagnosed

: 28 Aug 2023

: 28 Aug 2023 - Don Baldridge

5535 TRAILHEAD DRIVE CHATTANOOGA, TN US 37415

Contact: DANIEL LISELLA

SHIMMICK CONSTRUCTION

daniel.lisella@shimmick.com T:

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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