



OIL ANALYSIS REPORT

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

Store 9 - Marietta

Machine Id
JOHN DEERE 160G 31-008 (S/N 1FF160GXPKF057333)

Component
Hydraulic System

Fluid
{not provided} (--- GAL)

RECOMMENDATION

Resample at the next service interval to monitor.

| Test | UOM | Method | Limit/Abn | Current | History1 | History2 |
|----------------|-----|-------------|-----------|--------------------|-------------|-------------|
| Sample Number | | Client Info | | LEC0032054 | LEC0043932 | LEC0038172 |
| Sample Date | | Client Info | | 26 Jun 2024 | 28 Sep 2023 | 20 Mar 2023 |
| Machine Age | hrs | Client Info | | 3341 | 3122 | 2868 |
| Oil Age | hrs | Client Info | | 0 | 1622 | 1368 |
| Filter Age | hrs | Client Info | | 0 | 1500 | 1368 |
| Oil Changed | | Client Info | | N/A | Not Changd | Not Changd |
| Filter Changed | | Client Info | | N/A | Changed | Not Changd |
| Sample Status | | | | NORMAL | NORMAL | NORMAL |

WEAR

All component wear rates are normal.

| | | | | | | |
|--------------|--------|-------------|------|--------------|------|------|
| PQ | | ASTM D8184 | >50 | 20 | 15 | 12 |
| Iron | ppm | ASTM D5185m | >32 | 5 | 3 | 1 |
| Chromium | ppm | ASTM D5185m | >9 | 2 | 2 | <1 |
| Nickel | ppm | ASTM D5185m | >5 | <1 | 0 | 0 |
| Titanium | ppm | ASTM D5185m | | 0 | 0 | 0 |
| Silver | ppm | ASTM D5185m | | 0 | 0 | 0 |
| Aluminum | ppm | ASTM D5185m | >9 | 1 | 0 | <1 |
| Lead | ppm | ASTM D5185m | >28 | <1 | 0 | 0 |
| Copper | ppm | ASTM D5185m | >50 | 2 | 1 | 0 |
| Tin | ppm | ASTM D5185m | >5 | 0 | 0 | 0 |
| Vanadium | ppm | ASTM D5185m | | 0 | 0 | 0 |
| White Metal | scalar | *Visual | NONE | NONE | NONE | NONE |
| Yellow Metal | scalar | *Visual | NONE | NONE | NONE | NONE |

CONTAMINATION

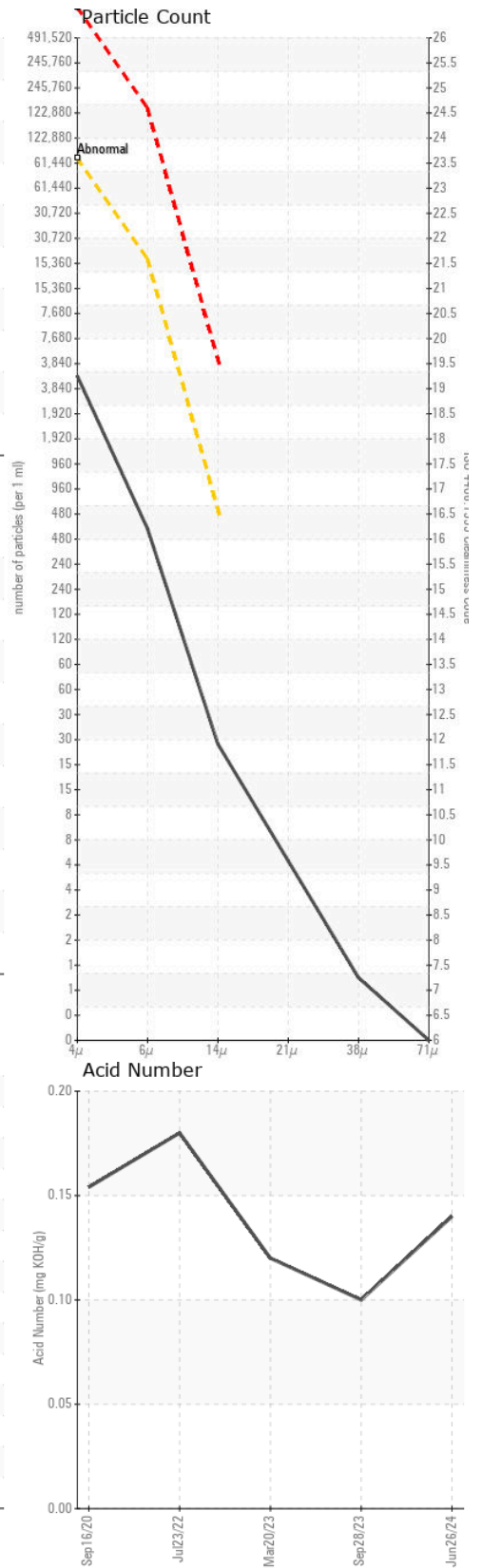
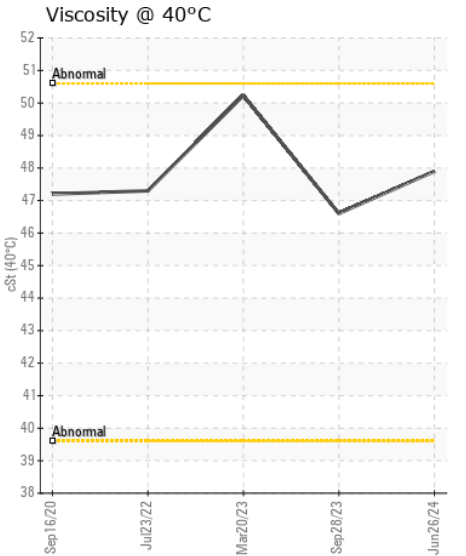
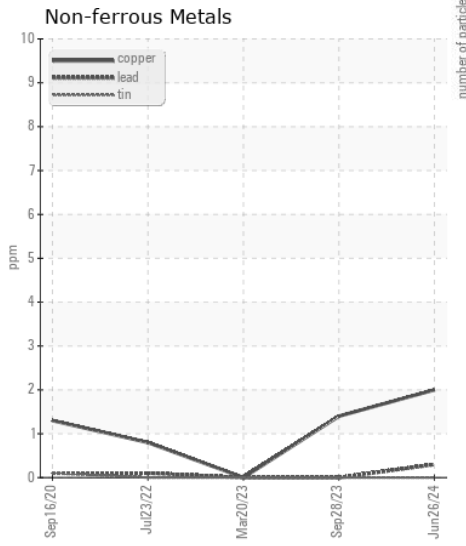
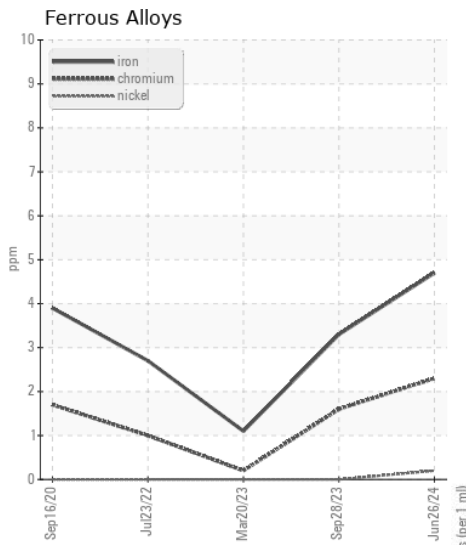
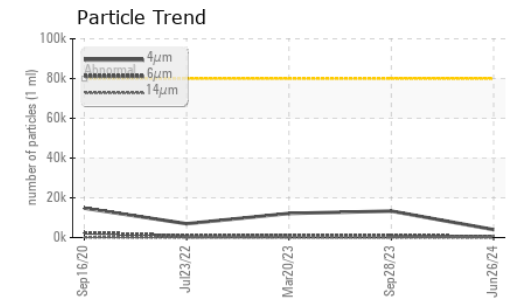
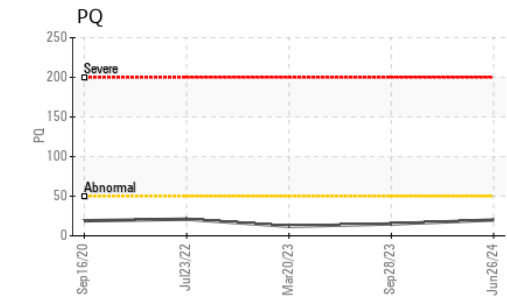
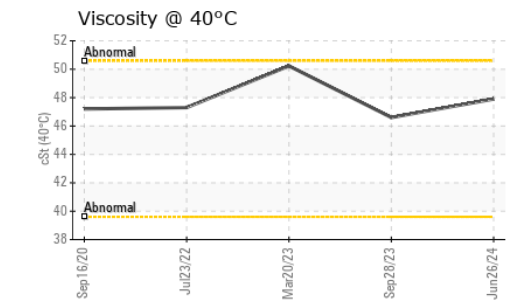
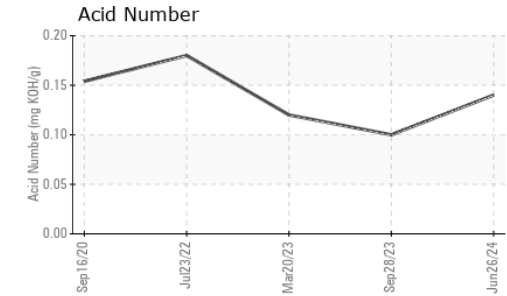
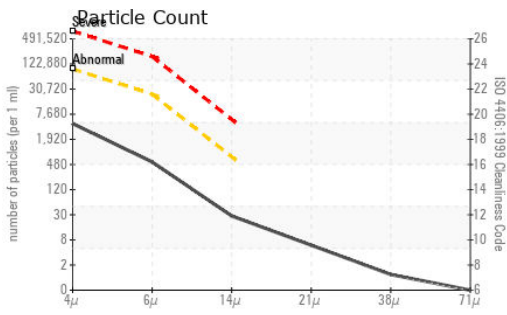
The amount and size of particulates present in the system are acceptable. There is no indication of any contamination in the oil.

| | | | | | | |
|------------------|--------|--------------|-----------|-----------------|----------|----------|
| Silicon | ppm | ASTM D5185m | >11 | <1 | 1 | <1 |
| Potassium | ppm | ASTM D5185m | >20 | 4 | <1 | 0 |
| Water | | WC Method | >0.075 | NEG | NEG | NEG |
| Particles >4µm | | ASTM D7647 | >80000 | 3997 | 13321 | 12143 |
| Particles >6µm | | ASTM D7647 | >20000 | 485 | 736 | 1090 |
| Particles >14µm | | ASTM D7647 | >640 | 25 | 12 | 43 |
| Particles >21µm | | ASTM D7647 | >160 | 5 | 3 | 10 |
| Particles >38µm | | ASTM D7647 | >40 | 1 | 0 | 0 |
| Particles >71µm | | ASTM D7647 | >10 | 0 | 0 | 0 |
| Oil Cleanliness | | ISO 4406 (c) | >23/21/16 | 19/16/12 | 21/17/11 | 21/17/13 |
| Silt | scalar | *Visual | NONE | NONE | NONE | NONE |
| Debris | scalar | *Visual | NONE | NONE | 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

The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

| | | | | | | |
|------------------|----------|-------------|-----|--------------|------|-------|
| Sodium | ppm | ASTM D5185m | >21 | 2 | 0 | 0 |
| Boron | ppm | ASTM D5185m | | 0 | 0 | 0 |
| Barium | ppm | ASTM D5185m | | 0 | 0 | 0 |
| Molybdenum | ppm | ASTM D5185m | | 0 | <1 | <1 |
| Manganese | ppm | ASTM D5185m | | 0 | 0 | 0 |
| Magnesium | ppm | ASTM D5185m | | <1 | 2 | 6 |
| Calcium | ppm | ASTM D5185m | | 1 | 11 | 4 |
| Phosphorus | ppm | ASTM D5185m | | 532 | 477 | 461 |
| Zinc | ppm | ASTM D5185m | | 18 | 18 | 4 |
| Sulfur | ppm | ASTM D5185m | | 106 | 71 | 0 |
| Acid Number (AN) | mg KOH/g | ASTM D8045 | | 0.14 | 0.10 | 0.12 |
| Visc @ 40°C | cSt | ASTM D445 | | 47.9 | 46.6 | 50.23 |



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : LEC0032054 **Received** : 05 Jul 2024
Lab Number : 06229084 **Tested** : 09 Jul 2024
Unique Number : 11112577 **Diagnosed** : 09 Jul 2024 - Jonathan Hester
Test Package : CONST (Additional Tests: 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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