



OIL ANALYSIS REPORT

WEAR
CONTAMINATION
FLUID CONDITION

| |
|-----------|
| ATTENTION |
| SEVERE |
| NORMAL |



Area
Store 4 - Fairmont [RO# 152035]
Machine Id
JOHN DEERE 650J T0650JX133890
Component
Left Final Drive
Fluid
JOHN DEERE HY-GARD HYD/TRANS (9 QTS)

RECOMMENDATION

We advise that you check all areas where dirt can enter the system. We advise that you check for the source of water entry. The oil change at the time of sampling has been noted. We recommend an early resample to monitor this condition.

WEAR

All component wear rates are normal.

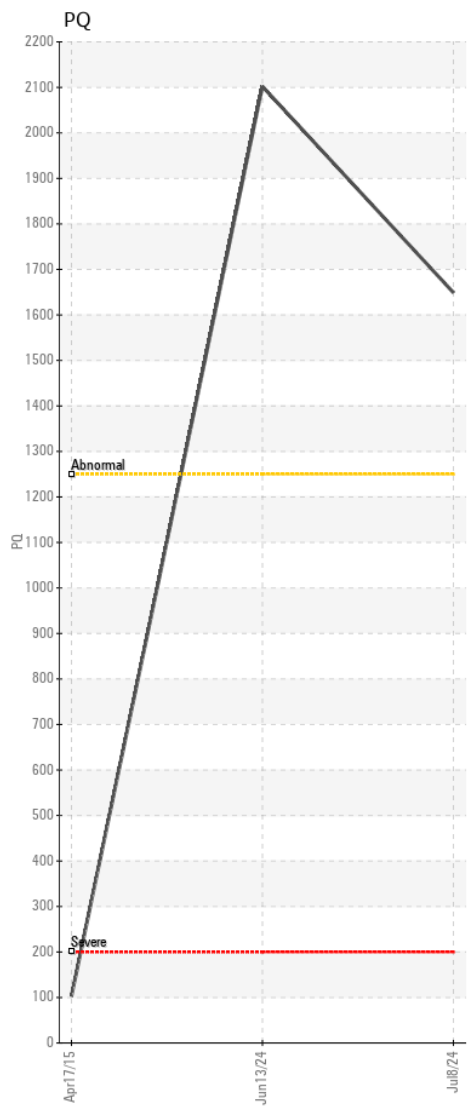
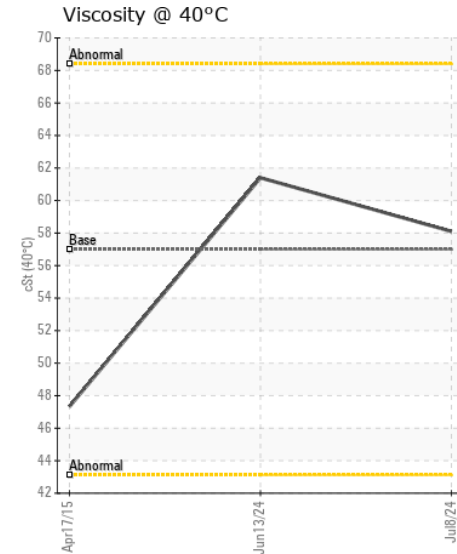
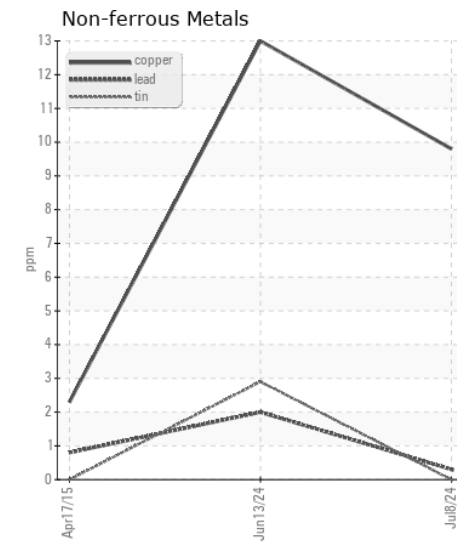
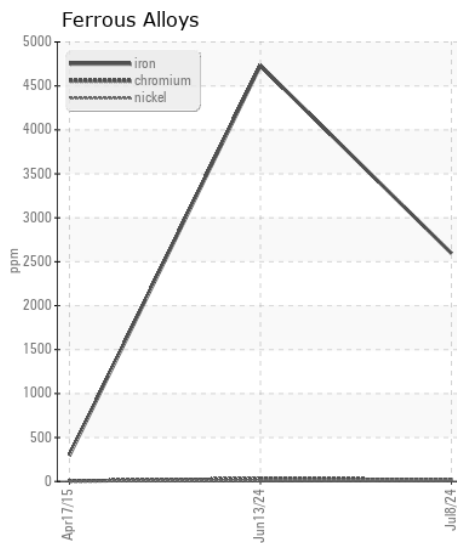
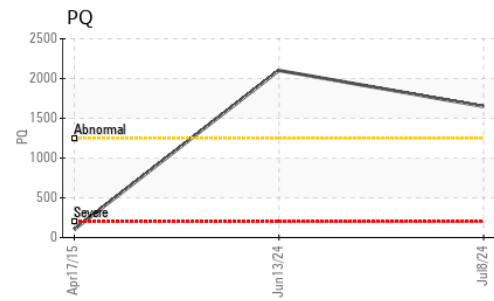
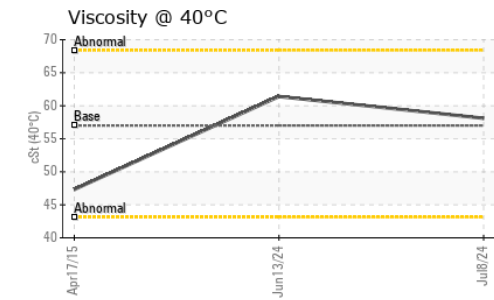
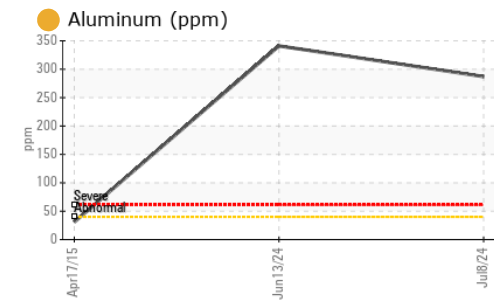
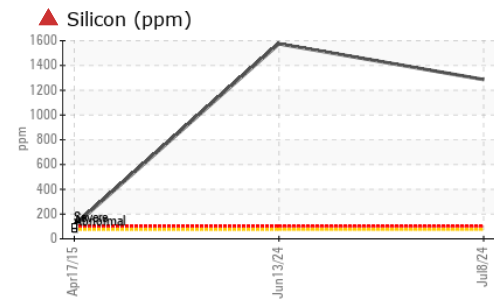
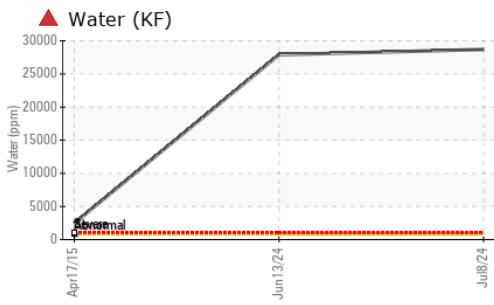
CONTAMINATION

Elemental levels of silicon (Si) and aluminum (Al) indicate alumina-silicate (coarse dirt) ingress. There is a high concentration of water present in the oil.

FLUID CONDITION

The oil is no longer serviceable due to the presence of contaminants.

| Test | UOM | Method | Limit/Abn | Current | History1 | History2 |
|------------------|--------|-------------|-----------|--------------------|-------------|-------------|
| Sample Number | | Client Info | | LEC0050981 | LEC0048361 | LECP156466 |
| Sample Date | | Client Info | | 08 Jul 2024 | 13 Jun 2024 | 17 Apr 2015 |
| Machine Age | hrs | Client Info | | 4152 | 4152 | 2462 |
| Oil Age | hrs | Client Info | | 1690 | 1690 | 0 |
| Filter Age | hrs | Client Info | | 0 | 0 | 0 |
| Oil Changed | | Client Info | | Changed | Not Changed | Changed |
| Filter Changed | | Client Info | | N/A | N/A | N/A |
| Sample Status | | | | SEVERE | SEVERE | ABNORMAL |
| PQ | | ASTM D8184 | >1250 | 1649 | ▲ 2102 | 103 |
| Iron | ppm | ASTM D5185m | >750 | 2596 | ▲ 4732 | 296 |
| Chromium | ppm | ASTM D5185m | >9 | 18 | ▲ 30 | 4 |
| Nickel | ppm | ASTM D5185m | >10 | 6 | ▲ 10 | <1 |
| Titanium | ppm | ASTM D5185m | | 18 | 27 | 1 |
| Silver | ppm | ASTM D5185m | | 0 | <1 | 0 |
| Aluminum | ppm | ASTM D5185m | >40 | ● 287 | ● 341 | ● 31 |
| Lead | ppm | ASTM D5185m | >15 | <1 | 2 | <1 |
| Copper | ppm | ASTM D5185m | >40 | 10 | 13 | 2 |
| Tin | ppm | ASTM D5185m | >10 | 0 | 3 | 0 |
| Vanadium | ppm | ASTM D5185m | | 1 | 2 | 0 |
| White Metal | scalar | *Visual | NONE | NONE | NONE | LIGHT |
| Yellow Metal | scalar | *Visual | NONE | NONE | NONE | NONE |
| Silicon | ppm | ASTM D5185m | >75 | ▲ 1286 | ▲ 1575 | ▲ 106 |
| Potassium | ppm | ASTM D5185m | >20 | 86 | 107 | 34 |
| Water | % | ASTM D6304 | >0.075 | ▲ 2.87 | ▲ 2.79 | ▲ 0.248 |
| ppm Water | ppm | ASTM D6304 | >750 | ▲ 28700 | ▲ 27900 | ▲ 2480 |
| Silt | scalar | *Visual | NONE | NONE | MODER | NONE |
| Debris | scalar | *Visual | NONE | NONE | NONE | NONE |
| Sand/Dirt | scalar | *Visual | NONE | NONE | NONE | NONE |
| Appearance | scalar | *Visual | NORML | NORML | ● HAZY | NORML |
| Odor | scalar | *Visual | NORML | NORML | NORML | NORML |
| Emulsified Water | scalar | *Visual | >0.075 | ▲ 0.2% | ▲ 0.2% | ▲ 0.2% |
| Sodium | ppm | ASTM D5185m | >51 | 20 | 25 | 8 |
| Boron | ppm | ASTM D5185m | 6 | 92 | 84 | 7 |
| Barium | ppm | ASTM D5185m | 0 | 0 | 3 | 0 |
| Molybdenum | ppm | ASTM D5185m | 0 | 48 | 50 | 1 |
| Manganese | ppm | ASTM D5185m | | 31 | 48 | 5 |
| Magnesium | ppm | ASTM D5185m | 145 | 234 | 246 | 117 |
| Calcium | ppm | ASTM D5185m | 3570 | 2151 | 2731 | 3616 |
| Phosphorus | ppm | ASTM D5185m | 1290 | 910 | 1075 | 1100 |
| Zinc | ppm | ASTM D5185m | 1640 | 1126 | 1162 | 1252 |
| Sulfur | ppm | ASTM D5185m | | 3381 | 4340 | 5170 |
| Visc @ 40°C | cSt | ASTM D445 | 57.0 | 58.1 | 61.4 | 47.33 |



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : LEC0050981 **Received** : 16 Jul 2024
Lab Number : 06238082 **Tested** : 17 Jul 2024
Unique Number : 11126916 **Diagnosed** : 18 Jul 2024 - Don Baldridge
Test Package : CONST (Additional Tests: KF, PQ)

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Certificate L2367
 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)