



OIL ANALYSIS REPORT

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

Area Store 4 - Fairmont [RO# 152714]

Machine Id JLG G12-55A 0160058541

Component Hydraulic System

Fluid JOHN DEERE HY-GARD HYD/TRANS (65 GAL)

RECOMMENDATION

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.

| Test           | UOM | Method      | Limit/Abn | Current     | History1    | History2    |
|----------------|-----|-------------|-----------|-------------|-------------|-------------|
| Sample Number  |     | Client Info |           | LEC0051456  | LECP152575  | LECP154337  |
| Sample Date    |     | Client Info |           | 10 Jul 2024 | 27 Aug 2015 | 13 Apr 2015 |
| Machine Age    | hrs | Client Info |           | 3264        | 1623        | 1236        |
| Oil Age        | hrs | Client Info |           | 1641        | 1623        | 1236        |
| Filter Age     | hrs | Client Info |           | 1641        | 1623        | 1236        |
| Oil Changed    |     | Client Info |           | Not Changed | Changed     | Not Changed |
| Filter Changed |     | Client Info |           | Changed     | Changed     | Not Changed |
| Sample Status  |     |             |           | ATTENTION   | NORMAL      | NORMAL      |

WEAR

All component wear rates are normal.

| PQ           | UOM    | Method      | Limit/Abn | Current | History1 | History2 |
|--------------|--------|-------------|-----------|---------|----------|----------|
| Iron         | ppm    | ASTM D5185m | >20       | 6       | 4        | 3        |
| Chromium     | ppm    | ASTM D5185m | >10       | <1      | <1       | <1       |
| Nickel       | ppm    | ASTM D5185m | >10       | 0       | <1       | <1       |
| Titanium     | ppm    | ASTM D5185m |           | 0       | 0        | 0        |
| Silver       | ppm    | ASTM D5185m |           | 0       | 0        | 0        |
| Aluminum     | ppm    | ASTM D5185m | >10       | <1      | <1       | <1       |
| Lead         | ppm    | ASTM D5185m | >10       | 0       | <1       | 0        |
| Copper       | ppm    | ASTM D5185m | >75       | 8       | 3        | 2        |
| Tin          | ppm    | ASTM D5185m | >10       | <1      | <1       | <1       |
| Vanadium     | ppm    | ASTM D5185m |           | 0       | 0        | 0        |
| White Metal  | scalar | *Visual     | NONE      | NONE    | NONE     | NONE     |
| Yellow Metal | scalar | *Visual     | NONE      | NONE    | NONE     | NONE     |

CONTAMINATION

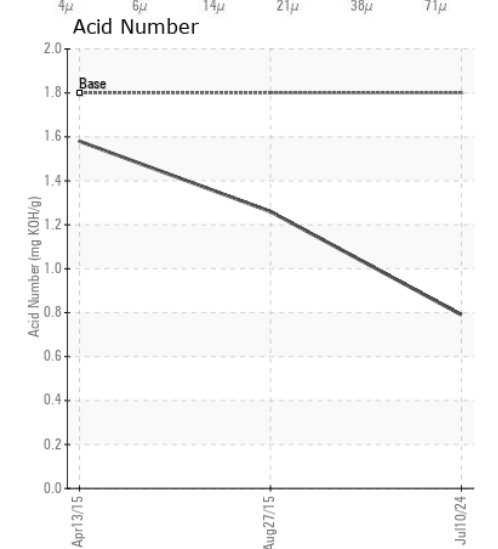
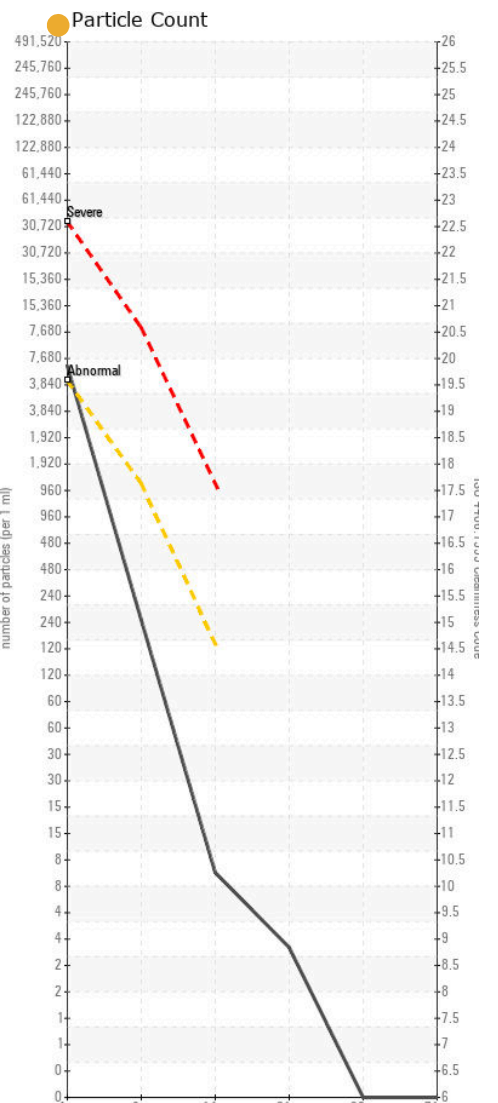
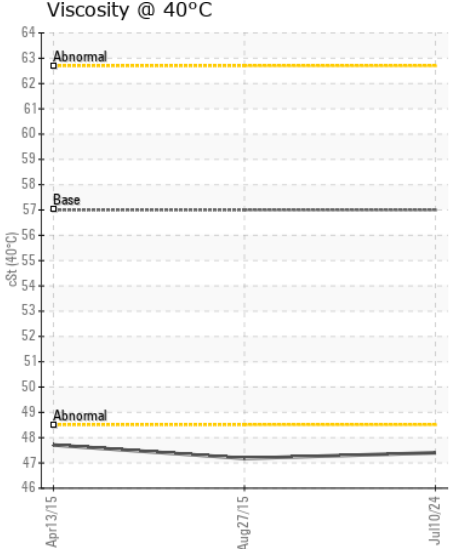
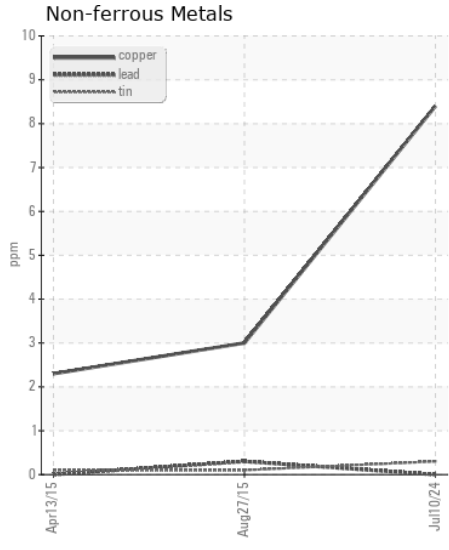
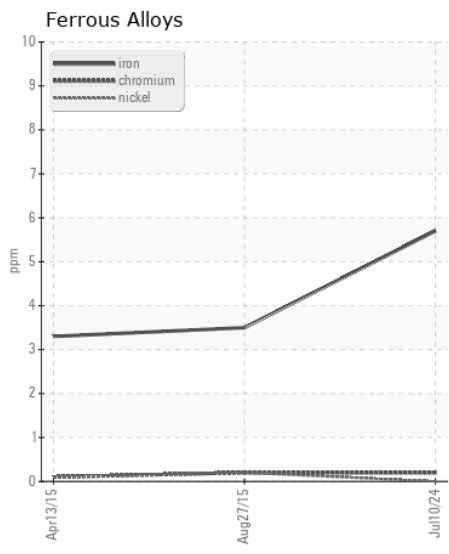
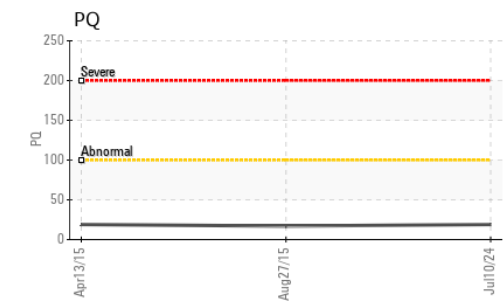
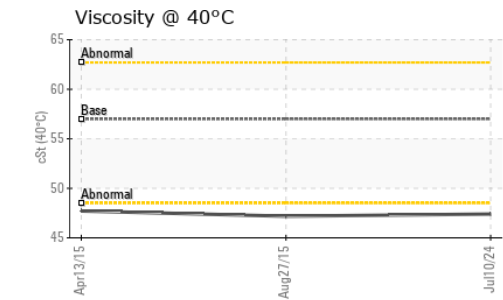
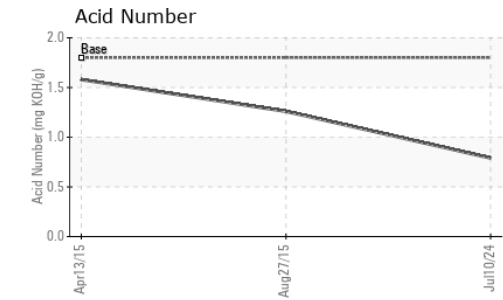
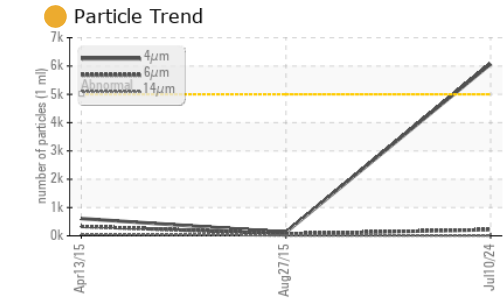
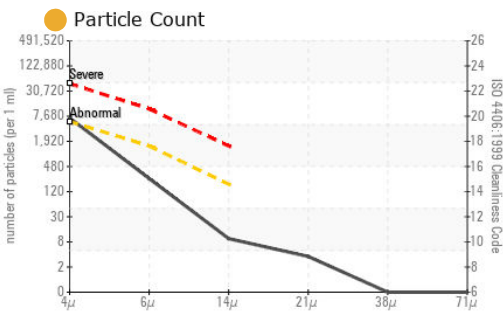
There is a moderate amount of silt (particulates < 14 microns in size) present in the oil.

|                  |        |              |           |          |          |          |
|------------------|--------|--------------|-----------|----------|----------|----------|
| Silicon          | ppm    | ASTM D5185m  | >20       | 11       | 10       | 11       |
| Potassium        | ppm    | ASTM D5185m  | >20       | 0        | 2        | 1        |
| Water            |        | WC Method    | >0.1      | NEG      | NEG      | NEG      |
| Particles >4µm   |        | ASTM D7647   | >5000     | 6072     | 127      | 610      |
| Particles >6µm   |        | ASTM D7647   | >1300     | 218      | 69       | 332      |
| Particles >14µm  |        | ASTM D7647   | >160      | 8        | 11       | 56       |
| Particles >21µm  |        | ASTM D7647   | >40       | 3        | 4        | 19       |
| Particles >38µm  |        | ASTM D7647   | >10       | 0        | 0        | 2        |
| Particles >71µm  |        | ASTM D7647   | >3        | 0        | 0        | 0        |
| Oil Cleanliness  |        | ISO 4406 (c) | >19/17/14 | 20/15/10 | 14/13/11 | 16/16/13 |
| Silt             | scalar | *Visual      | NONE      | NONE     | NONE     | NONE     |
| Debris           | scalar | *Visual      | NONE      | NONE     | VLITE    | 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      | >0.1      | 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 |      | 3    | 1     | 2     |
| Boron            | ppm      | ASTM D5185m | 6    | 90   | 80    | 92    |
| Barium           | ppm      | ASTM D5185m | 0    | 0    | 0     | 0     |
| Molybdenum       | ppm      | ASTM D5185m | 0    | 1    | 2     | 2     |
| Manganese        | ppm      | ASTM D5185m |      | 0    | <1    | <1    |
| Magnesium        | ppm      | ASTM D5185m | 145  | 33   | 11    | 9     |
| Calcium          | ppm      | ASTM D5185m | 3570 | 3038 | 2964  | 3350  |
| Phosphorus       | ppm      | ASTM D5185m | 1290 | 1084 | 975   | 1094  |
| Zinc             | ppm      | ASTM D5185m | 1640 | 1266 | 1190  | 1323  |
| Sulfur           | ppm      | ASTM D5185m |      | 8823 | 9839  | 11359 |
| Acid Number (AN) | mg KOH/g | ASTM D8045  | 1.8  | 0.79 | 1.26  | 1.58  |
| Visc @ 40°C      | cSt      | ASTM D445   | 57.0 | 47.4 | 47.18 | 47.71 |



**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : LEC0051456 **Received** : 16 Jul 2024  
**Lab Number** : 06237656 **Tested** : 17 Jul 2024  
**Unique Number** : 11126490 **Diagnosed** : 18 Jul 2024 - Don Baldrige  
**Test Package** : CONST ( Additional Tests: PQ )

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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)