



WEAR
CONTAMINATION
FLUID CONDITION

ATTENTION

ABNORMAL

NORMAL

Machine Id
JOHN DEERE 345G 1FF345GXKMF020827

Component
Left Final Drive

Fluid
GEAR OIL SAE 80W90 (--- GAL)

RECOMMENDATION

We advise that you check all areas where dirt can enter the system. The oil change at the time of sampling has been noted. Resample at the next service interval to monitor.

WEAR

All component wear rates are normal for time on oil.

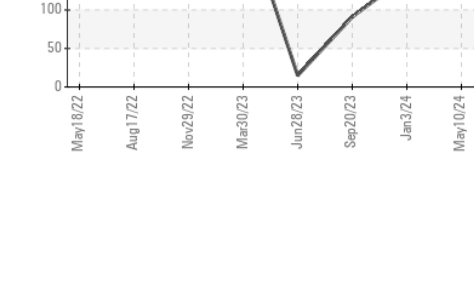
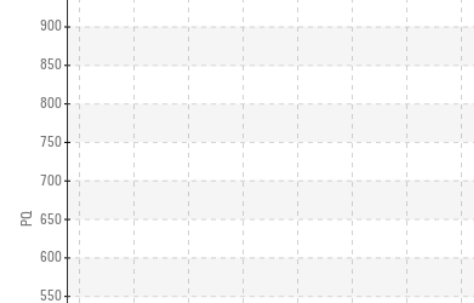
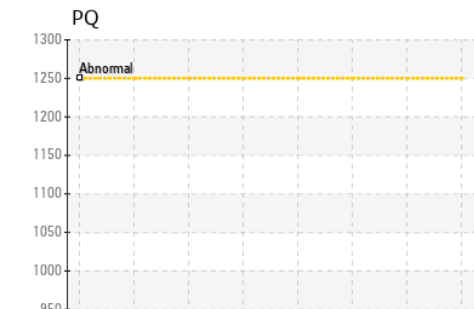
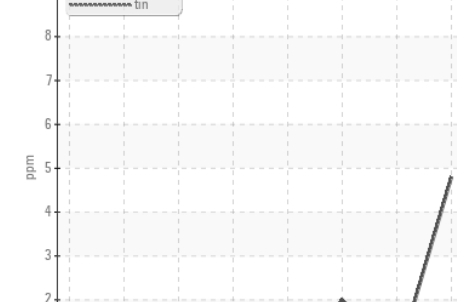
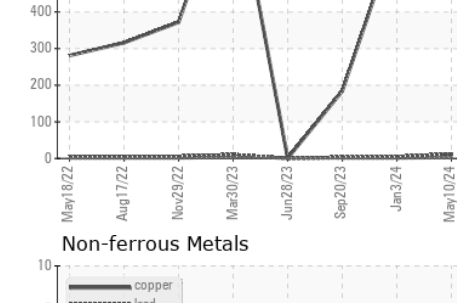
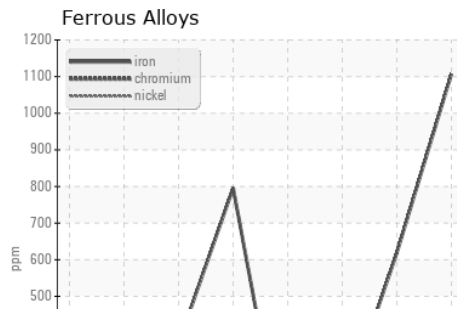
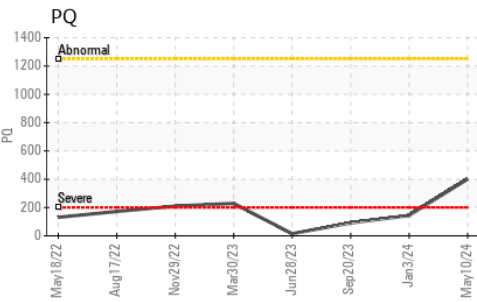
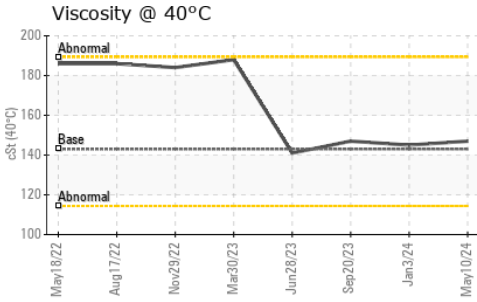
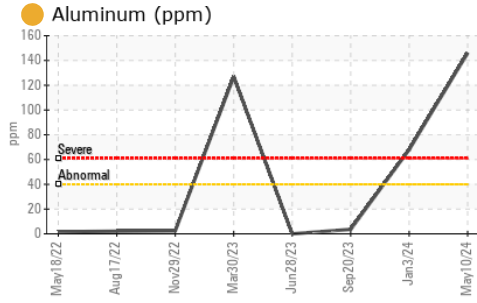
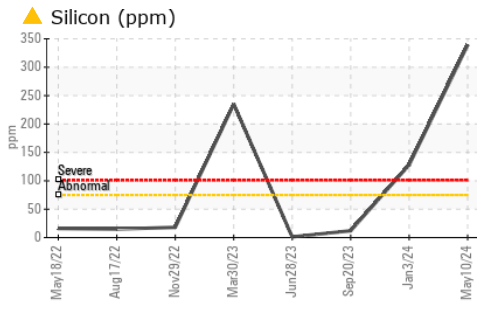
CONTAMINATION

Elemental levels of silicon (Si) and aluminum (Al) indicate alumina-silicate (coarse dirt) ingress.

FLUID CONDITION

The condition of the oil is acceptable for the time in service.

| Test | UOM | Method | Limit/Abn | Current | History1 | History2 |
|------------------|--------|-------------|-----------|--------------------|-------------|-------------|
| Sample Number | | Client Info | | JR0215031 | JR0189058 | JR0188745 |
| Sample Date | | Client Info | | 10 May 2024 | 03 Jan 2024 | 20 Sep 2023 |
| Machine Age | hrs | Client Info | | 4132 | 3530 | 2994 |
| Oil Age | hrs | Client Info | | 2579 | 2513 | 2478 |
| Filter Age | hrs | Client Info | | 0 | 0 | 0 |
| Oil Changed | | Client Info | | Changed | Not Changd | Not Changd |
| Filter Changed | | Client Info | | N/A | Not Changd | N/A |
| Sample Status | | | | ABNORMAL | ABNORMAL | ABNORMAL |
| PQ | | ASTM D8184 | >1250 | 401 | 144 | 91 |
| Iron | ppm | ASTM D5185m | >750 | 1107 | 619 | 184 |
| Chromium | ppm | ASTM D5185m | >9 | 12 | 4 | 3 |
| Nickel | ppm | ASTM D5185m | >10 | 1 | 0 | 0 |
| Titanium | ppm | ASTM D5185m | | 10 | 3 | <1 |
| Silver | ppm | ASTM D5185m | | 0 | 0 | 0 |
| Aluminum | ppm | ASTM D5185m | >40 | 146 | 68 | 4 |
| Lead | ppm | ASTM D5185m | >15 | 0 | 0 | 0 |
| Copper | ppm | ASTM D5185m | >40 | 5 | <1 | 2 |
| Tin | ppm | ASTM D5185m | >10 | <1 | 0 | <1 |
| Vanadium | ppm | ASTM D5185m | | <1 | 0 | 0 |
| White Metal | scalar | *Visual | NONE | NONE | MODER | NONE |
| Yellow Metal | scalar | *Visual | NONE | NONE | NONE | NONE |
| Silicon | ppm | ASTM D5185m | >75 | 339 | 128 | 12 |
| Potassium | ppm | ASTM D5185m | >20 | 14 | 8 | 0 |
| Water | | WC Method | >0.075 | NEG | NEG | NEG |
| Silt | scalar | *Visual | NONE | NONE | NONE | NONE |
| Debris | scalar | *Visual | NONE | NONE | NONE | MODER |
| 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 |
| Sodium | ppm | ASTM D5185m | >170 | 9 | 2 | 3 |
| Boron | ppm | ASTM D5185m | 400 | 15 | 7 | 17 |
| Barium | ppm | ASTM D5185m | 200 | 0 | <1 | 0 |
| Molybdenum | ppm | ASTM D5185m | 12 | 3 | 0 | <1 |
| Manganese | ppm | ASTM D5185m | | 13 | 5 | 4 |
| Magnesium | ppm | ASTM D5185m | 12 | 28 | 6 | <1 |
| Calcium | ppm | ASTM D5185m | 150 | 41 | 11 | 17 |
| Phosphorus | ppm | ASTM D5185m | 1650 | 336 | 331 | 377 |
| Zinc | ppm | ASTM D5185m | 125 | 17 | 6 | 6 |
| Sulfur | ppm | ASTM D5185m | 22500 | 21542 | 19243 | 20967 |
| Visc @ 40°C | cSt | ASTM D445 | 143 | 147 | 145 | 147 |



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : JR0215031 **Received** : 13 May 2024
Lab Number : 06177486 **Tested** : 14 May 2024
Unique Number : 11023539 **Diagnosed** : 15 May 2024 - Don Baldrige
Test Package : CONST (Additional Tests: PQ)

JRE - CHARLOTTE
 9550 STATESVILLE ROAD
 CHARLOTTE, NC
 US 28269

Contact: CHARLOTTE SHOP
 myoung@jamesriverequipment.com

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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