



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

Area
[W22345-MARLANNEO]
 Machine Id
JOHN DEERE 865M 1M0865MDJPP060572
 Component
Diesel Engine
 Fluid
JOHN DEERE ENGINE OIL PLUS 50 II 15W40 (--- GAL)

RECOMMENDATION

Resample at the next service interval to monitor.

| Test | UOM | Method | Limit/Abn | Current | History1 | History2 |
|----------------|-----|-------------|-----------|--------------------|----------|----------|
| Sample Number | | Client Info | | JR0210802 | --- | --- |
| Sample Date | | Client Info | | 04 Jun 2024 | --- | --- |
| Machine Age | hrs | Client Info | | 191 | --- | --- |
| Oil Age | hrs | Client Info | | 191 | --- | --- |
| Filter Age | hrs | Client Info | | 191 | --- | --- |
| Oil Changed | | Client Info | | Changed | --- | --- |
| Filter Changed | | Client Info | | Changed | --- | --- |
| Sample Status | | | | NORMAL | --- | --- |

WEAR

Metal levels are typical for a new component breaking in.

| | | | | | | |
|--------------|--------|-------------|------|--------------|-----|-----|
| Iron | ppm | ASTM D5185m | >51 | 10 | --- | --- |
| Chromium | ppm | ASTM D5185m | >11 | 0 | --- | --- |
| Nickel | ppm | ASTM D5185m | >5 | <1 | --- | --- |
| Titanium | ppm | ASTM D5185m | | 0 | --- | --- |
| Silver | ppm | ASTM D5185m | >3 | 0 | --- | --- |
| Aluminum | ppm | ASTM D5185m | >31 | 6 | --- | --- |
| Lead | ppm | ASTM D5185m | >26 | 0 | --- | --- |
| Copper | ppm | ASTM D5185m | >26 | 5 | --- | --- |
| Tin | ppm | ASTM D5185m | >4 | <1 | --- | --- |
| Vanadium | ppm | ASTM D5185m | | <1 | --- | --- |
| White Metal | scalar | *Visual | NONE | NONE | --- | --- |
| Yellow Metal | scalar | *Visual | NONE | NONE | --- | --- |

CONTAMINATION

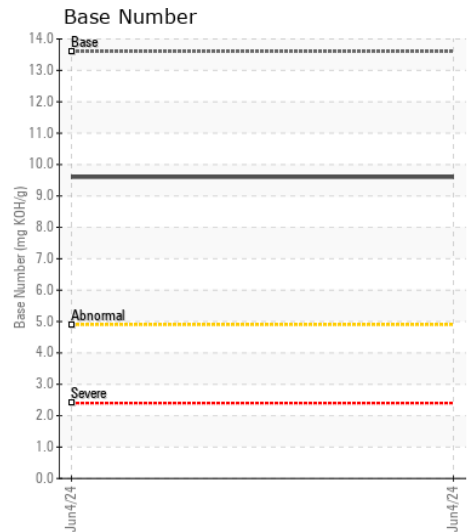
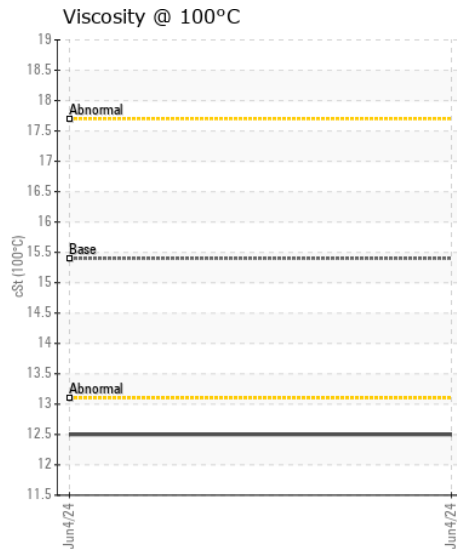
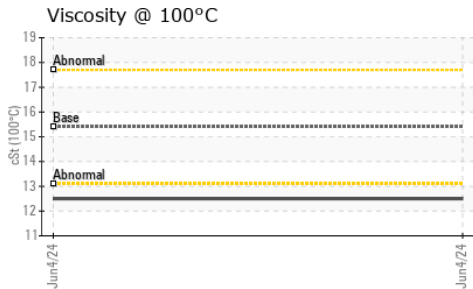
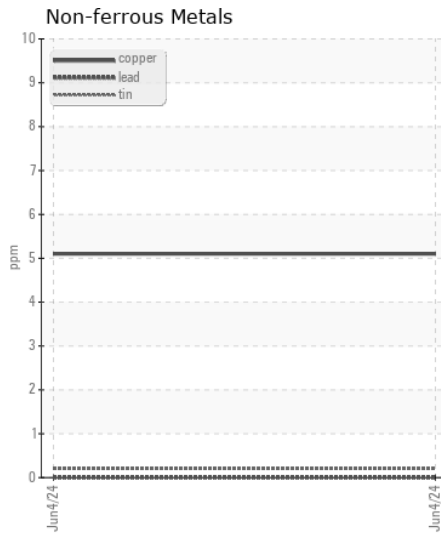
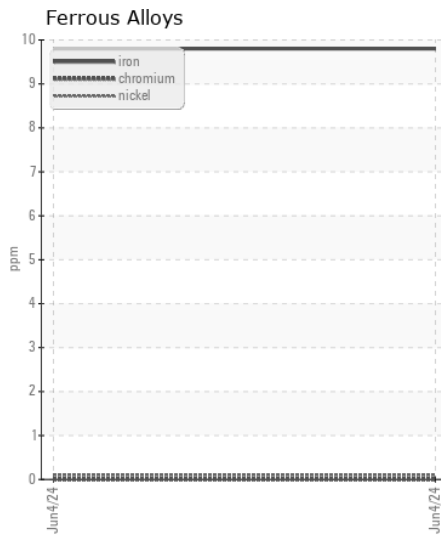
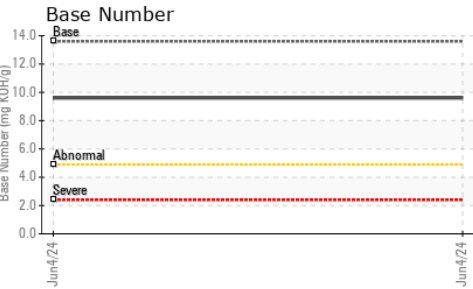
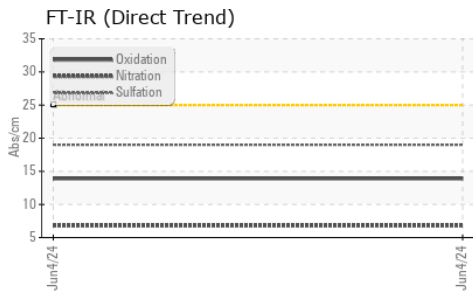
There is no indication of any contamination in the oil.

| | | | | | | |
|------------------|----------|-------------|-------|----------------|-----|-----|
| Silicon | ppm | ASTM D5185m | >22 | 38 | --- | --- |
| Potassium | ppm | ASTM D5185m | >20 | 3 | --- | --- |
| Fuel | % | ASTM D3524 | >2.1 | <1.0 | --- | --- |
| Water | | WC Method | >0.21 | NEG | --- | --- |
| Glycol | | WC Method | | NEG | --- | --- |
| Soot % | % | *ASTM D7844 | >3 | 0.2 | --- | --- |
| Nitration | Abs/cm | *ASTM D7624 | >20 | 6.8 | --- | --- |
| Sulfation | Abs/.1mm | *ASTM D7415 | >30 | 19.0 | --- | --- |
| Silt | scalar | *Visual | NONE | NONE | --- | --- |
| Debris | scalar | *Visual | NONE | NONE | --- | --- |
| Sand/Dirt | scalar | *Visual | NONE | NONE | --- | --- |
| Appearance | scalar | *Visual | NORML | NORML | --- | --- |
| Odor | scalar | *Visual | NORML | NORML | --- | --- |
| Emulsified Water | scalar | *Visual | >0.21 | NEG | --- | --- |

FLUID CONDITION

The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is acceptable for the time in service.

| | | | | | | |
|------------------|----------|-------------|------|-------------|-----|-----|
| Sodium | ppm | ASTM D5185m | >31 | 4 | --- | --- |
| Boron | ppm | ASTM D5185m | | 236 | --- | --- |
| Barium | ppm | ASTM D5185m | | 1 | --- | --- |
| Molybdenum | ppm | ASTM D5185m | | 236 | --- | --- |
| Manganese | ppm | ASTM D5185m | | 1 | --- | --- |
| Magnesium | ppm | ASTM D5185m | | 805 | --- | --- |
| Calcium | ppm | ASTM D5185m | | 1453 | --- | --- |
| Phosphorus | ppm | ASTM D5185m | | 949 | --- | --- |
| Zinc | ppm | ASTM D5185m | | 1084 | --- | --- |
| Sulfur | ppm | ASTM D5185m | | 3562 | --- | --- |
| Oxidation | Abs/.1mm | *ASTM D7414 | >25 | 13.9 | --- | --- |
| Base Number (BN) | mg KOH/g | ASTM D2896 | 13.6 | 9.6 | --- | --- |
| Visc @ 100°C | cSt | ASTM D445 | 15.4 | 12.5 | --- | --- |



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : JR0210802 **Received** : 17 Jun 2024
Lab Number : 06212884 **Tested** : 20 Jun 2024
Unique Number : 11085748 **Diagnosed** : 20 Jun 2024 - Sean Felton
Test Package : CONST (Additional Tests: FuelDilution, PercentFuel, TBN)

JRE - BURKEVILLE
 510 WEST COLONIAL DR
 BURKEVILLE, VA
 US 23922

Contact: RACHEL HARRIS
 RACHEL.HARRIS@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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