



OIL ANALYSIS REPORT

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



Area
Store 4 - Fairmont [RO# 151949]
Machine Id
JOHN DEERE 700K 1T0700KXKEE268175
Component
Diesel Engine
Fluid
JOHN DEERE ENGINE OIL PLUS 50 II 15W40 (7 GAL)

RECOMMENDATION

Resample at the next service interval to monitor. Please note that this is a corrected copy for data entry updates for oil and filter status.

| Test | UOM | Method | Limit/Abn | Current | History1 | History2 |
|----------------|-----|-------------|-----------|--------------------|-------------|----------|
| Sample Number | | Client Info | | LEC0048500 | LEC0017412 | --- |
| Sample Date | | Client Info | | 11 Jun 2024 | 09 Nov 2020 | --- |
| Machine Age | hrs | Client Info | | 3850 | 2802 | --- |
| Oil Age | hrs | Client Info | | 1048 | 2802 | --- |
| Filter Age | hrs | Client Info | | 1048 | 2802 | --- |
| Oil Changed | | Client Info | | Not Chngd | Changed | --- |
| Filter Changed | | Client Info | | Not Chngd | Changed | --- |
| Sample Status | | | | NORMAL | NORMAL | --- |

WEAR

All component wear rates are normal.

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

CONTAMINATION

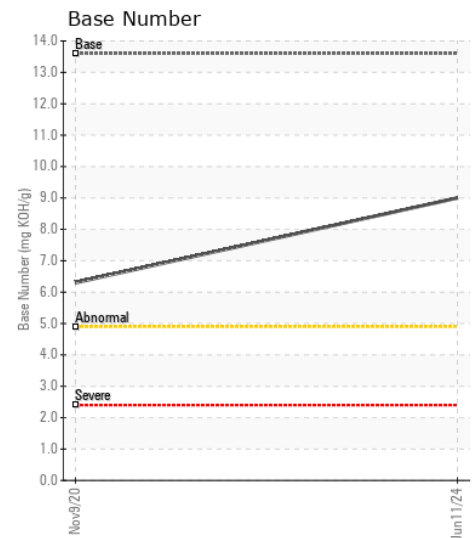
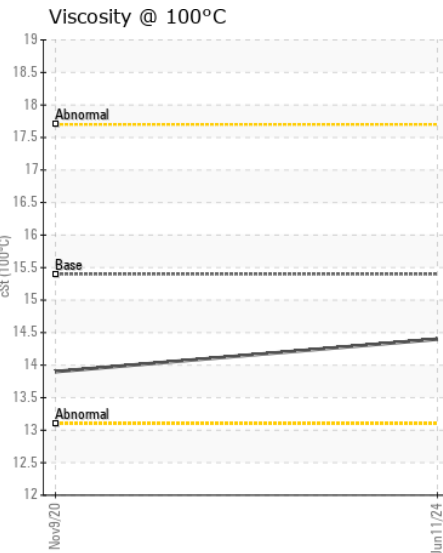
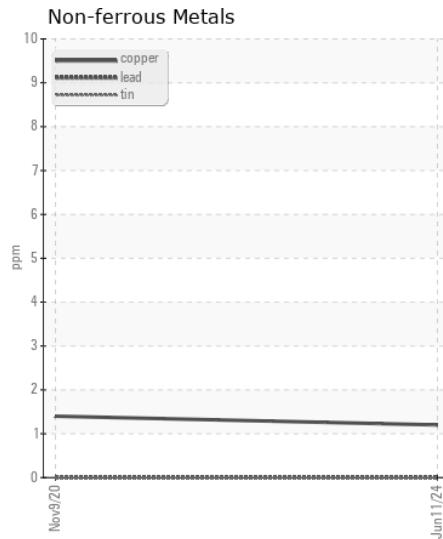
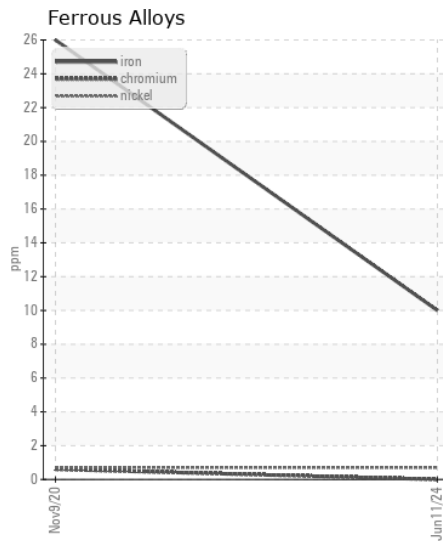
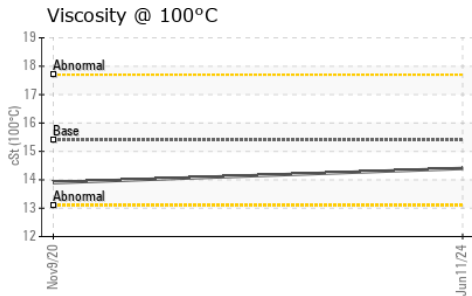
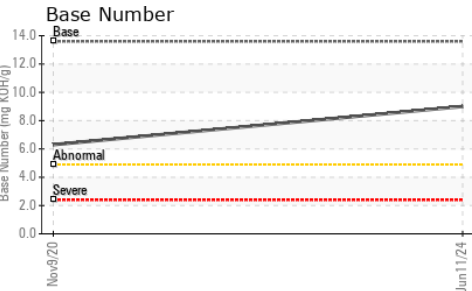
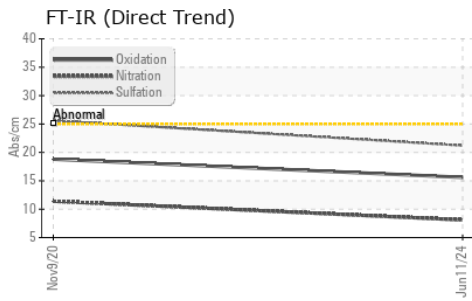
There is no indication of any contamination in the oil.

| | | | | | | |
|------------------|----------|-------------|-------|----------------|-------|-----|
| Silicon | ppm | ASTM D5185m | >120 | 7 | 7 | --- |
| Potassium | ppm | ASTM D5185m | >20 | 4 | 0 | --- |
| Fuel | | WC Method | >2.1 | <1.0 | <1.0 | --- |
| Water | | WC Method | >0.21 | NEG | NEG | --- |
| Glycol | | WC Method | | NEG | NEG | --- |
| Soot % | % | *ASTM D7844 | >3 | 0.2 | 0.6 | --- |
| Nitration | Abs/cm | *ASTM D7624 | >20 | 8.1 | 11.4 | --- |
| Sulfation | Abs/.1mm | *ASTM D7415 | >30 | 21.2 | 25.6 | --- |
| Silt | scalar | *Visual | NONE | NONE | NONE | --- |
| Debris | scalar | *Visual | NONE | NONE | NONE | --- |
| Sand/Dirt | scalar | *Visual | NONE | NONE | NONE | --- |
| Appearance | scalar | *Visual | NORML | NORML | NORML | --- |
| Odor | scalar | *Visual | NORML | NORML | NORML | --- |
| Emulsified Water | scalar | *Visual | >0.21 | NEG | NEG | --- |

FLUID CONDITION

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

| | | | | | | |
|------------------|----------|-------------|------|--------------|------|-----|
| Sodium | ppm | ASTM D5185m | >31 | 4 | 4 | --- |
| Boron | ppm | ASTM D5185m | | 228 | 33 | --- |
| Barium | ppm | ASTM D5185m | | 0 | 0 | --- |
| Molybdenum | ppm | ASTM D5185m | | 240 | 31 | --- |
| Manganese | ppm | ASTM D5185m | | <1 | <1 | --- |
| Magnesium | ppm | ASTM D5185m | | 836 | 275 | --- |
| Calcium | ppm | ASTM D5185m | | 1459 | 2176 | --- |
| Phosphorus | ppm | ASTM D5185m | | 918 | 950 | --- |
| Zinc | ppm | ASTM D5185m | | 1080 | 1134 | --- |
| Sulfur | ppm | ASTM D5185m | | 3468 | 2880 | --- |
| Oxidation | Abs/.1mm | *ASTM D7414 | >25 | 15.6 | 18.8 | --- |
| Base Number (BN) | mg KOH/g | ASTM D2896 | 13.6 | 9.0 | 6.3 | --- |
| Visc @ 100°C | cSt | ASTM D445 | 15.4 | 14.4 | 13.9 | --- |



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : LEC0048500 **Received** : 17 Jun 2024
Lab Number : 06211414 **Tested** : 19 Jun 2024
Unique Number : 11084278 **Diagnosed** : 19 Jun 2024 - Doug Bogart
Test Package : CONST (Additional Tests: TBN)

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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