



OIL ANALYSIS REPORT

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

Area

Store 4 - Fairmont

Machine Id

PRINOTH T12 935300156

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 | | LEC0021094 | LEC0014385 | LEC0006703 |
| Sample Date | | Client Info | | 04 May 2021 | 26 Jun 2020 | 02 Oct 2019 |
| Machine Age | hrs | Client Info | | 1134 | 693 | 340 |
| Oil Age | hrs | Client Info | | 441 | 693 | 340 |
| Filter Age | hrs | Client Info | | 441 | 693 | 340 |
| Oil Changed | | Client Info | | Changed | Changed | Changed |
| Filter Changed | | Client Info | | Changed | Changed | Changed |
| Sample Status | | | | NORMAL | NORMAL | NORMAL |

WEAR

All component wear rates are normal.

| | | | | | | |
|--------------|--------|-------------|------|--------------|------|------|
| Iron | ppm | ASTM D5185m | >100 | 34 | 32 | 44 |
| Chromium | ppm | ASTM D5185m | >20 | <1 | 1 | <1 |
| Nickel | ppm | ASTM D5185m | >4 | <1 | <1 | <1 |
| Titanium | ppm | ASTM D5185m | | <1 | <1 | 0 |
| Silver | ppm | ASTM D5185m | >3 | 0 | 0 | 0 |
| Aluminum | ppm | ASTM D5185m | >20 | 9 | 8 | 5 |
| Lead | ppm | ASTM D5185m | >40 | <1 | 0 | 0 |
| Copper | ppm | ASTM D5185m | >330 | 6 | 13 | 34 |
| Tin | ppm | ASTM D5185m | >15 | <1 | 0 | <1 |
| Vanadium | ppm | ASTM D5185m | | <1 | 0 | 0 |
| White Metal | scalar | *Visual | NONE | NONE | NONE | NONE |
| Yellow Metal | scalar | *Visual | NONE | NONE | NONE | NONE |

CONTAMINATION

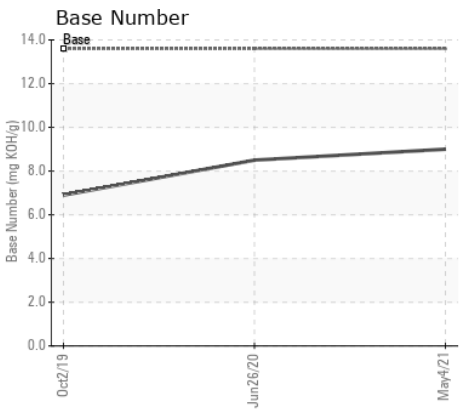
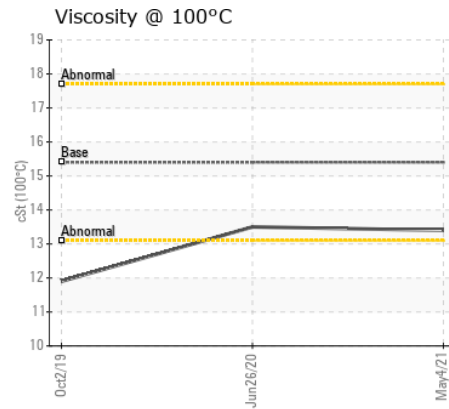
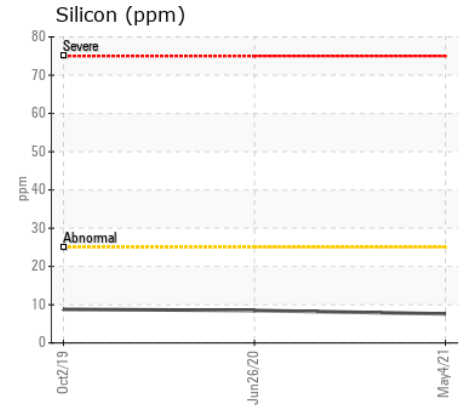
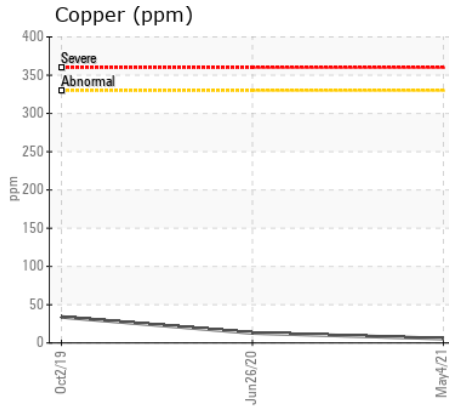
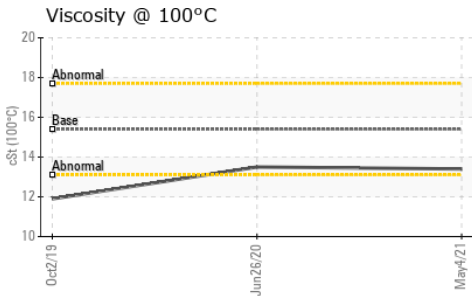
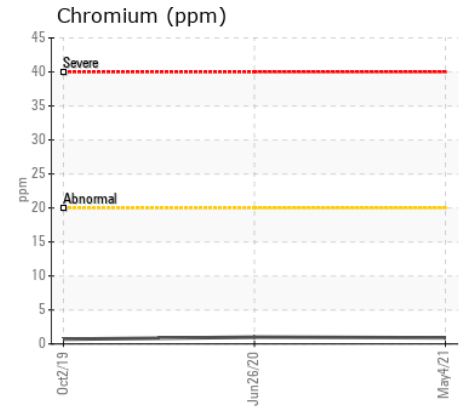
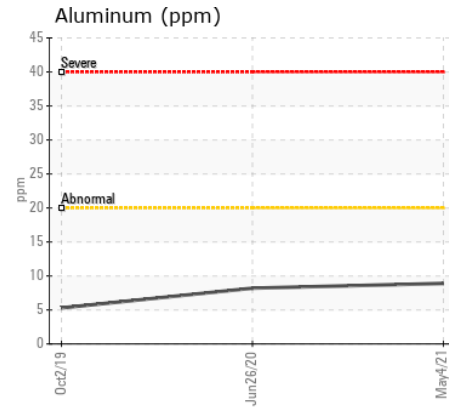
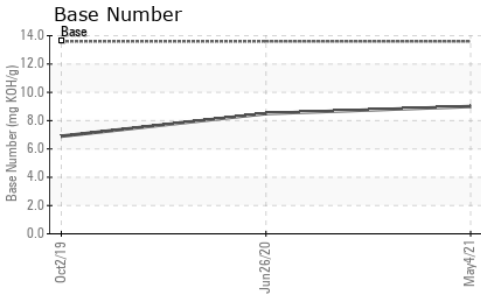
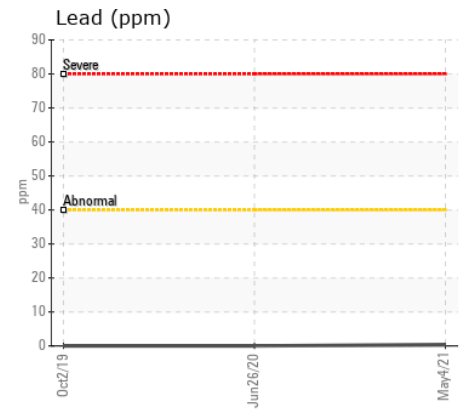
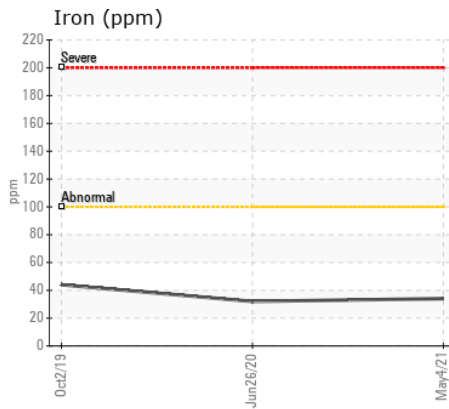
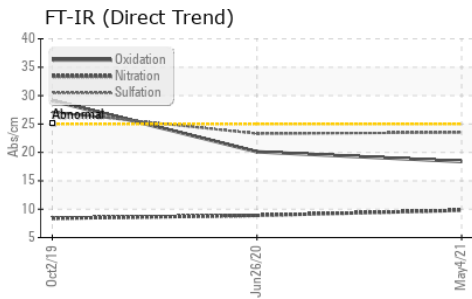
There is no indication of any contamination in the oil.

| | | | | | | |
|------------------|----------|-------------|-------|----------------|-------|-------|
| Silicon | ppm | ASTM D5185m | >25 | 8 | 8 | 9 |
| Potassium | ppm | ASTM D5185m | >20 | 1 | 6 | 6 |
| Fuel | | WC Method | >5 | <1.0 | <1.0 | <1.0 |
| Water | | WC Method | >0.2 | NEG | NEG | NEG |
| Glycol | | WC Method | | NEG | NEG | NEG |
| Soot % | % | *ASTM D7844 | >3 | 0.2 | 0.2 | 0.2 |
| Nitration | Abs/cm | *ASTM D7624 | >20 | 9.8 | 8.9 | 8.4 |
| Sulfation | Abs/.1mm | *ASTM D7415 | >30 | 23.5 | 23.3 | 27.1 |
| 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 | >0.2 | NEG | 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 | | <1 | 2 | 4 |
| Boron | ppm | ASTM D5185m | | 208 | 206 | 72 |
| Barium | ppm | ASTM D5185m | | 0 | 0 | <1 |
| Molybdenum | ppm | ASTM D5185m | | 234 | 181 | 3 |
| Manganese | ppm | ASTM D5185m | | <1 | <1 | 3 |
| Magnesium | ppm | ASTM D5185m | | 735 | 631 | 17 |
| Calcium | ppm | ASTM D5185m | | 1429 | 1870 | 2025 |
| Phosphorus | ppm | ASTM D5185m | | 854 | 1022 | 924 |
| Zinc | ppm | ASTM D5185m | | 1053 | 1114 | 1045 |
| Sulfur | ppm | ASTM D5185m | | 2774 | 2939 | 3087 |
| Oxidation | Abs/.1mm | *ASTM D7414 | >25 | 18.4 | 20.1 | 29.1 |
| Base Number (BN) | mg KOH/g | ASTM D2896 | 13.6 | 9 | 8.5 | 6.9 |
| Visc @ 100°C | cSt | ASTM D445 | 15.4 | 13.4 | 13.5 | 11.9 |



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : LEC0021094 **Received** : 06 May 2021
Lab Number : 05247375 **Tested** : 07 May 2021
Unique Number : 9491284 **Diagnosed** : 07 May 2021 - Wes Davis
Test Package : MOBCE (Additional Tests: TBN)

LESLIE EQUIPMENT COMPANY
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 MARIETTA, OH
 US 45750-9765
 Contact: LEANNE KENDALL
 KendalLeanne@lec1.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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