



OIL ANALYSIS REPORT

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



Area
Store 3 - Norton
Machine Id
JOHN DEERE 250G 1FF250GXAHF610456
Component
Diesel Engine
Fluid
JOHN DEERE ENGINE OIL PLUS 50 II 15W40 (5 GAL)

RECOMMENDATION

Resample at the next service interval to monitor.

| Test | UOM | Method | Limit/Abn | Current | History1 | History2 |
|----------------|-----|-------------|-----------|--------------------|-------------|-------------|
| Sample Number | | Client Info | | LEC0033764 | LEC0000729 | LECP187813 |
| Sample Date | | Client Info | | 20 Sep 2022 | 18 Apr 2019 | 19 Oct 2018 |
| Machine Age | hrs | Client Info | | 4726 | 2270 | 1627 |
| Oil Age | hrs | Client Info | | 2456 | 643 | 564 |
| Filter Age | hrs | Client Info | | 350 | 643 | 564 |
| 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 | >51 | 35 | 34 | 32 |
| Chromium | ppm | ASTM D5185m | >11 | <1 | 1 | 1 |
| Nickel | ppm | ASTM D5185m | >5 | <1 | <1 | 1 |
| Titanium | ppm | ASTM D5185m | | <1 | <1 | <1 |
| Silver | ppm | ASTM D5185m | | <1 | 0 | 0 |
| Aluminum | ppm | ASTM D5185m | >31 | 4 | 7 | 5 |
| Lead | ppm | ASTM D5185m | >26 | 2 | 0 | 0 |
| Copper | ppm | ASTM D5185m | >26 | 2 | 9 | 19 |
| Tin | ppm | ASTM D5185m | >4 | <1 | <1 | 0 |
| Vanadium | ppm | ASTM D5185m | | <1 | 0 | 0 |
| White Metal | scalar | *Visual | NONE | NONE | NONE | NONE |
| Yellow Metal | scalar | *Visual | NONE | NONE | NONE | NONE |

CONTAMINATION

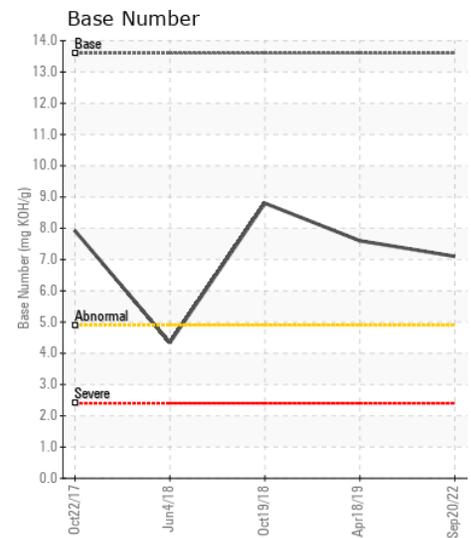
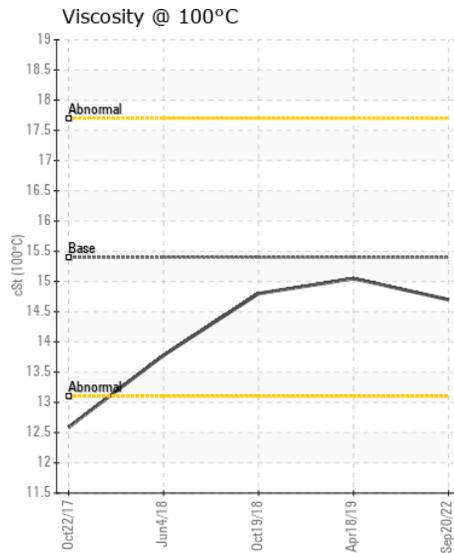
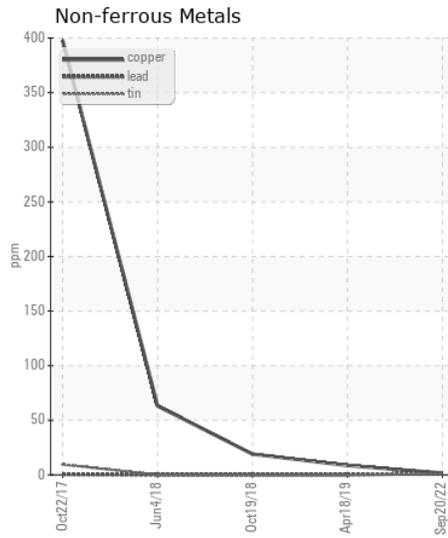
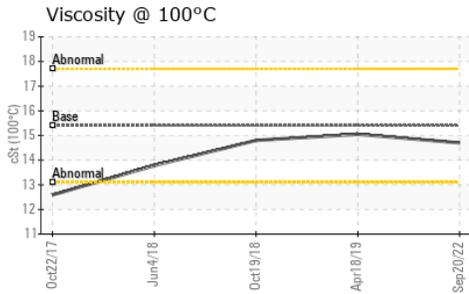
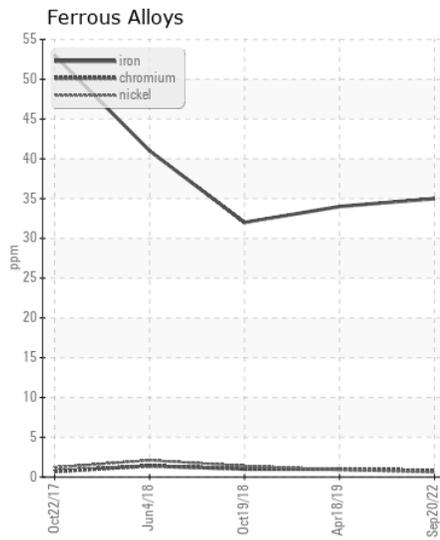
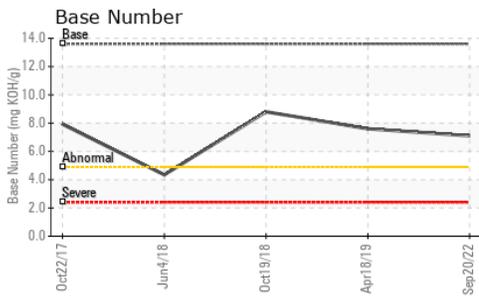
There is no indication of any contamination in the oil.

| | | | | | | |
|------------------|----------|-------------|-------|----------------|-------|-------|
| Silicon | ppm | ASTM D5185m | >120 | 9 | 7 | 7 |
| Potassium | ppm | ASTM D5185m | >20 | 1 | 4 | 5 |
| Fuel | | WC Method | >2.1 | <1.0 | <1.0 | <1.0 |
| Water | | WC Method | >0.21 | NEG | NEG | NEG |
| Glycol | | WC Method | | NEG | NEG | NEG |
| Soot % | % | *ASTM D7844 | >3 | 1.1 | 0.6 | 0.7 |
| Nitration | Abs/cm | *ASTM D7624 | >20 | 11.0 | 10.5 | 10.5 |
| Sulfation | Abs/.1mm | *ASTM D7415 | >30 | 28.6 | 25.2 | 24.8 |
| Silt | scalar | *Visual | NONE | NONE | NONE | NONE |
| Debris | scalar | *Visual | NONE | NONE | NONE | 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 | >0.21 | 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 | >31 | 4 | 5 | 5 |
| Boron | ppm | ASTM D5185m | | 47 | 91 | 94 |
| Barium | ppm | ASTM D5185m | | 0 | 0 | 0 |
| Molybdenum | ppm | ASTM D5185m | | 118 | 236 | 190 |
| Manganese | ppm | ASTM D5185m | | <1 | <1 | <1 |
| Magnesium | ppm | ASTM D5185m | | 547 | 820 | 749 |
| Calcium | ppm | ASTM D5185m | | 1574 | 1362 | 1657 |
| Phosphorus | ppm | ASTM D5185m | | 858 | 770 | 834 |
| Zinc | ppm | ASTM D5185m | | 1083 | 972 | 1034 |
| Sulfur | ppm | ASTM D5185m | | 3163 | 2218 | 2619 |
| Oxidation | Abs/.1mm | *ASTM D7414 | >25 | 22.9 | 20.3 | 19.9 |
| Base Number (BN) | mg KOH/g | ASTM D2896 | 13.6 | 7.1 | 7.6 | 8.8 |
| Visc @ 100°C | cSt | ASTM D445 | 15.4 | 14.7 | 15.05 | 14.8 |



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : LEC0033764 **Received** : 22 Sep 2022
Lab Number : 05648179 **Tested** : 23 Sep 2022
Unique Number : 10142718 **Diagnosed** : 23 Sep 2022 - Jonathan Hester
Test Package : CONST (Additional Tests: TBN)

LESLIE EQUIPMENT COMPANY
 105 TENNIS CENTER DR.
 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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