



OIL ANALYSIS REPORT

WEAR
CONTAMINATION
FLUID CONDITION

ABNORMAL
NORMAL
ATTENTION



Area

Store 4 - Fairmont [134810]

Machine Id

JOHN DEERE 130G 1FF130GXCNF043143

Component

Diesel Engine

Fluid

JOHN DEERE ENGINE OIL PLUS 50 II 15W40 (5 GAL)

RECOMMENDATION

Oil and filter change at the time of sampling has been noted. Resample at the next service interval to monitor.

| Test | UOM | Method | Limit/Abn | Current | History1 | History2 |
|----------------|-----|-------------|-----------|-------------|----------|----------|
| Sample Number | | Client Info | | LEC0037800 | --- | --- |
| Sample Date | | Client Info | | 20 Dec 2022 | --- | --- |
| Machine Age | hrs | Client Info | | 501 | --- | --- |
| Oil Age | hrs | Client Info | | 501 | --- | --- |
| Filter Age | hrs | Client Info | | 0 | --- | --- |
| Oil Changed | | Client Info | | Changed | --- | --- |
| Filter Changed | | Client Info | | Changed | --- | --- |
| Sample Status | | | | ABNORMAL | --- | --- |

WEAR

The copper level is abnormal. All other metal levels are typical for a new component breaking in.

| | | | | | | |
|--------------|--------|-------------|------|-------|-----|-----|
| Iron | ppm | ASTM D5185m | >51 | 39 | --- | --- |
| Chromium | ppm | ASTM D5185m | >11 | 3 | --- | --- |
| Nickel | ppm | ASTM D5185m | >5 | <1 | --- | --- |
| Titanium | ppm | ASTM D5185m | | <1 | --- | --- |
| Silver | ppm | ASTM D5185m | >3 | 0 | --- | --- |
| Aluminum | ppm | ASTM D5185m | >31 | 9 | --- | --- |
| Lead | ppm | ASTM D5185m | >26 | 8 | --- | --- |
| Copper | ppm | ASTM D5185m | >26 | ▲ 104 | --- | --- |
| Tin | ppm | ASTM D5185m | >4 | 5 | --- | --- |
| Vanadium | ppm | ASTM D5185m | | <1 | --- | --- |
| White Metal | scalar | *Visual | NONE | NONE | --- | --- |
| Yellow Metal | scalar | *Visual | NONE | NONE | --- | --- |

CONTAMINATION

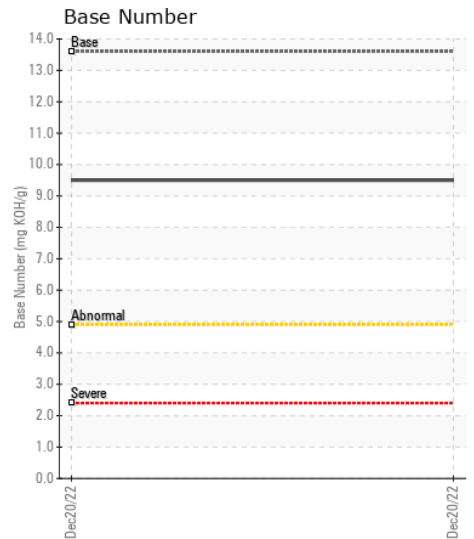
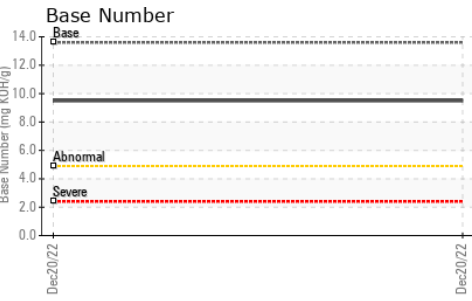
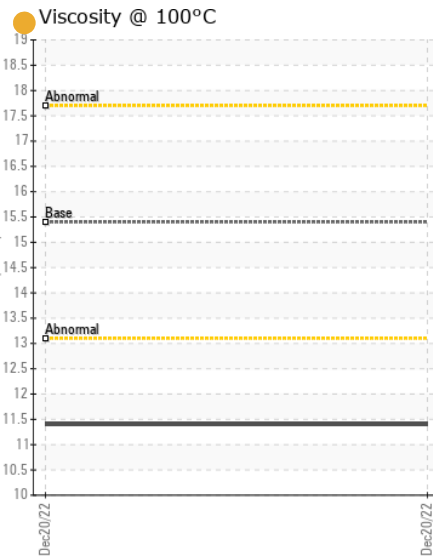
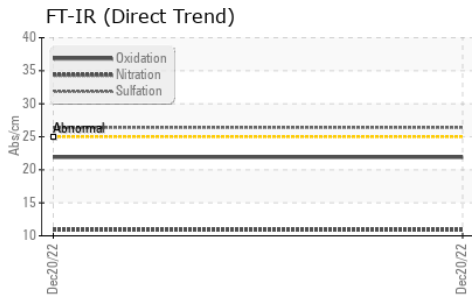
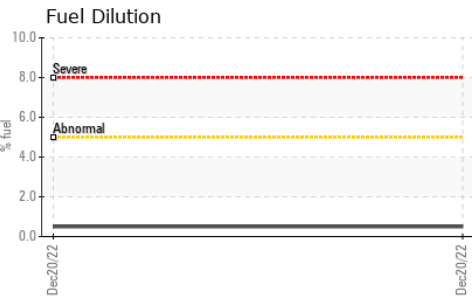
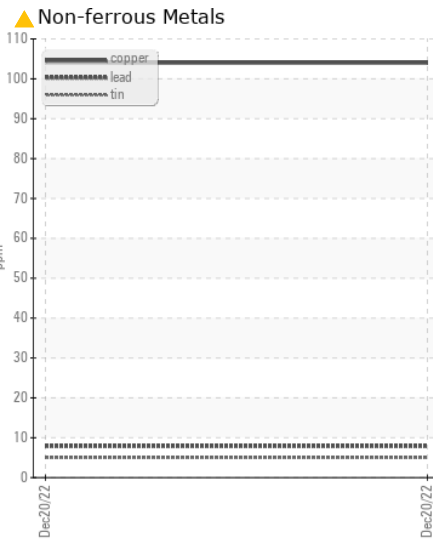
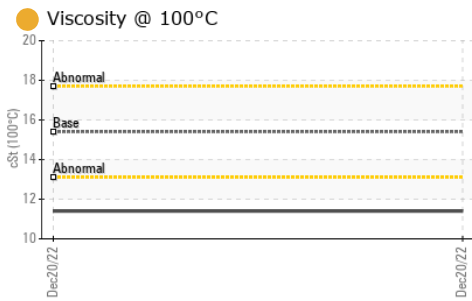
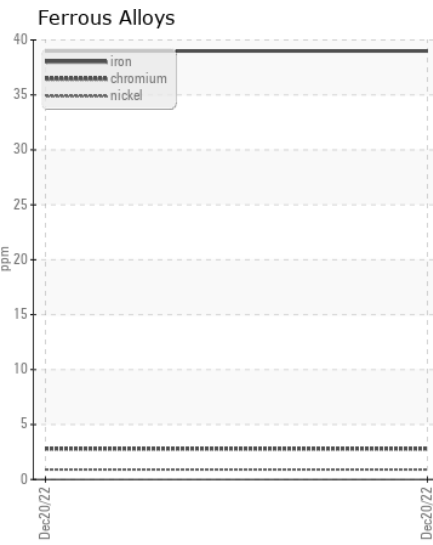
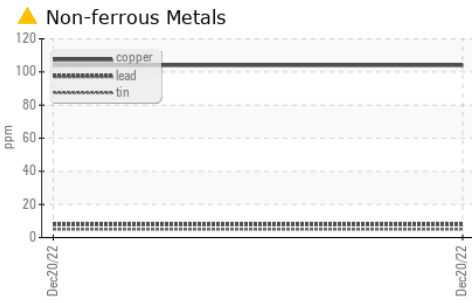
Fuel content negligible. There is no indication of any contamination in the oil.

| | | | | | | |
|------------------|----------|-------------|-------|-------|-----|-----|
| Silicon | ppm | ASTM D5185m | >120 | 12 | --- | --- |
| Potassium | ppm | ASTM D5185m | >20 | 13 | --- | --- |
| Fuel | % | ASTM D3524 | >5 | 0.5 | --- | --- |
| Water | | WC Method | >0.21 | NEG | --- | --- |
| Glycol | | WC Method | | NEG | --- | --- |
| Soot % | % | *ASTM D7844 | >3 | 0.6 | --- | --- |
| Nitration | Abs/cm | *ASTM D7624 | >20 | 10.9 | --- | --- |
| Sulfation | Abs/.1mm | *ASTM D7415 | >30 | 26.4 | --- | --- |
| 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 oil viscosity is lower than normal. The BN result indicates that there is suitable alkalinity remaining in the oil. Confirm oil type.

| | | | | | | |
|------------------|----------|-------------|------|--------|-----|-----|
| Sodium | ppm | ASTM D5185m | >31 | 19 | --- | --- |
| Boron | ppm | ASTM D5185m | | 185 | --- | --- |
| Barium | ppm | ASTM D5185m | | 0 | --- | --- |
| Molybdenum | ppm | ASTM D5185m | | 242 | --- | --- |
| Manganese | ppm | ASTM D5185m | | 4 | --- | --- |
| Magnesium | ppm | ASTM D5185m | | 796 | --- | --- |
| Calcium | ppm | ASTM D5185m | | 1608 | --- | --- |
| Phosphorus | ppm | ASTM D5185m | | 941 | --- | --- |
| Zinc | ppm | ASTM D5185m | | 1134 | --- | --- |
| Sulfur | ppm | ASTM D5185m | | 3122 | --- | --- |
| Oxidation | Abs/.1mm | *ASTM D7414 | >25 | 21.9 | --- | --- |
| Base Number (BN) | mg KOH/g | ASTM D2896 | 13.6 | 9.5 | --- | --- |
| Visc @ 100°C | cSt | ASTM D445 | 15.4 | ● 11.4 | --- | --- |



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : LEC0037800 **Received** : 22 Dec 2022
Lab Number : 05723831 **Tested** : 27 Dec 2022
Unique Number : 10268412 **Diagnosed** : 27 Dec 2022 - Jonathan Hester
Test Package : CONST (Additional Tests: FuelDilution, PercentFuel, 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) F: (740)373-5570