



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



Machine Id
JOHN DEERE 755K 1T0755KXKEE256736
 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 | | JR0077012 | JR0061902 | JR0045610 |
| Sample Date | | Client Info | | 23 Feb 2021 | 22 Sep 2020 | 25 Apr 2020 |
| Machine Age | hrs | Client Info | | 4997 | 4546 | 4068 |
| Oil Age | hrs | Client Info | | 0 | 0 | 0 |
| Filter Age | hrs | Client Info | | 0 | 0 | 0 |
| Oil Changed | | Client Info | | Changed | Changed | Changed |
| Filter Changed | | Client Info | | Changed | Changed | Changed |
| Sample Status | | | | NORMAL | NORMAL | ATTENTION |

WEAR

All component wear rates are normal.

| | | | | | | |
|--------------|--------|-------------|------|--------------|------|------|
| Iron | ppm | ASTM D5185m | >51 | 19 | 22 | 24 |
| Chromium | ppm | ASTM D5185m | >11 | <1 | <1 | <1 |
| Nickel | ppm | ASTM D5185m | >5 | 1 | 1 | <1 |
| Titanium | ppm | ASTM D5185m | | <1 | <1 | 0 |
| Silver | ppm | ASTM D5185m | | <1 | 0 | <1 |
| Aluminum | ppm | ASTM D5185m | >31 | 4 | 1 | 9 |
| Lead | ppm | ASTM D5185m | >26 | <1 | <1 | <1 |
| Copper | ppm | ASTM D5185m | >26 | 5 | 7 | 24 |
| Tin | ppm | ASTM D5185m | >4 | 2 | 2 | 3 |
| Vanadium | ppm | ASTM D5185m | | <1 | <1 | 0 |
| White Metal | scalar | *Visual | NONE | NONE | NONE | NONE |
| Yellow Metal | scalar | *Visual | NONE | NONE | NONE | NONE |

CONTAMINATION

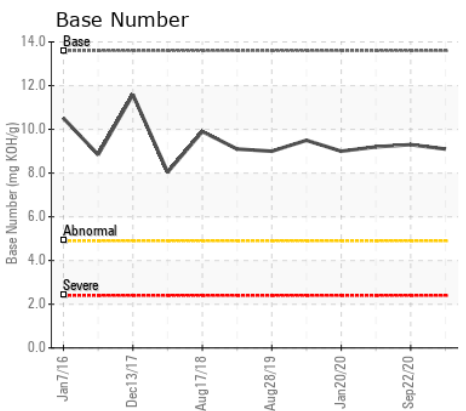
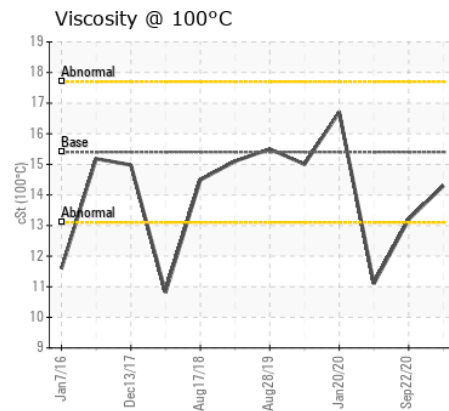
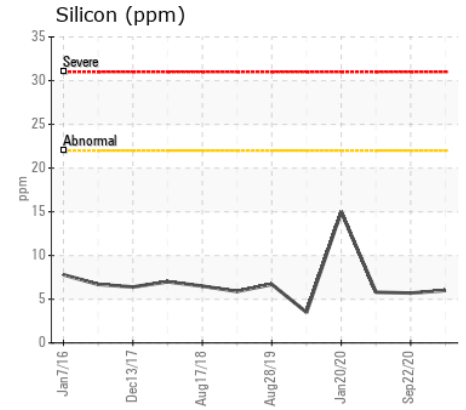
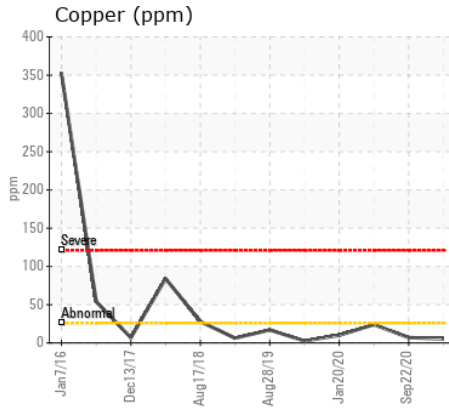
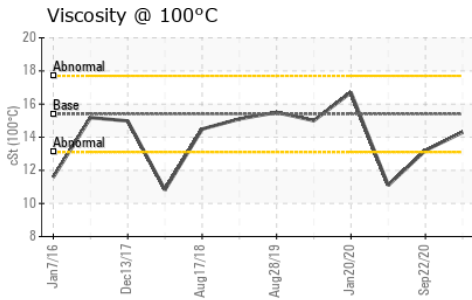
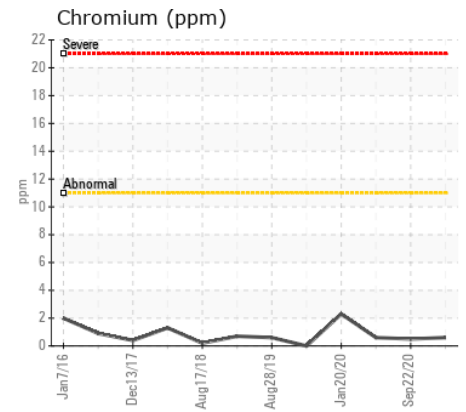
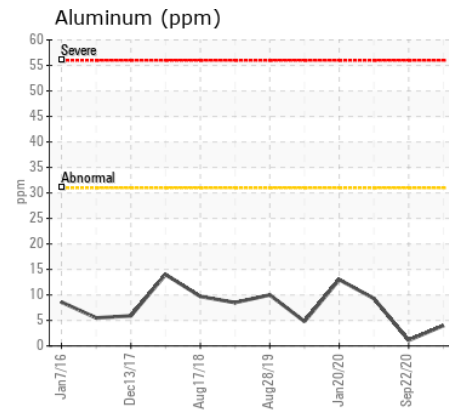
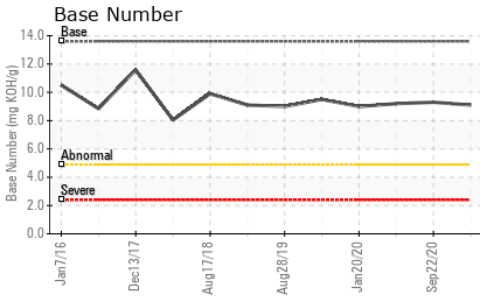
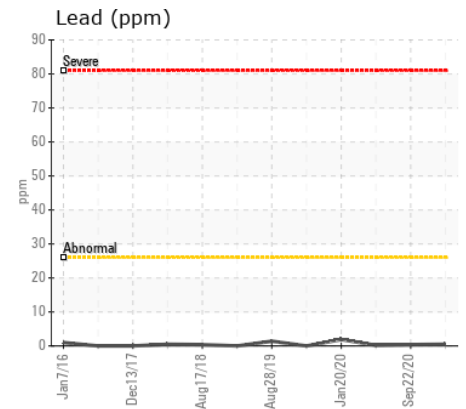
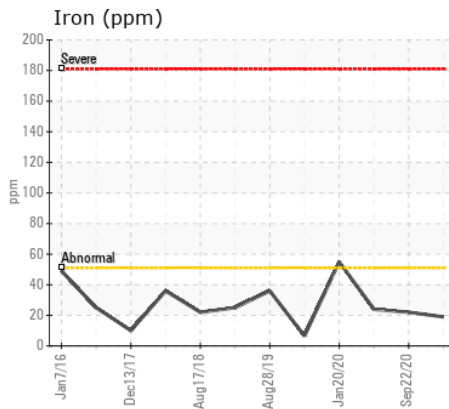
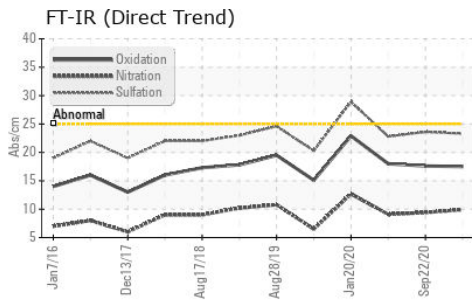
There is no indication of any contamination in the oil.

| | | | | | | |
|------------------|----------|-------------|-------|----------------|-------|-------|
| Silicon | ppm | ASTM D5185m | >22 | 6 | 6 | 6 |
| Potassium | ppm | ASTM D5185m | >20 | 4 | 8 | 7 |
| Fuel | | WC Method | >2.1 | <1.0 | <1.0 | 0.2 |
| Water | | WC Method | >0.21 | NEG | NEG | NEG |
| Glycol | | WC Method | | NEG | NEG | NEG |
| Soot % | % | *ASTM D7844 | >3 | 0.4 | 0.6 | 0.5 |
| Nitration | Abs/cm | *ASTM D7624 | >20 | 9.9 | 9.4 | 9.1 |
| Sulfation | Abs/.1mm | *ASTM D7415 | >30 | 23.3 | 23.6 | 22.8 |
| 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 | 8 | 13 |
| Boron | ppm | ASTM D5185m | | 211 | 173 | 200 |
| Barium | ppm | ASTM D5185m | | 0 | <1 | 0 |
| Molybdenum | ppm | ASTM D5185m | | 240 | 218 | 246 |
| Manganese | ppm | ASTM D5185m | | <1 | <1 | 1 |
| Magnesium | ppm | ASTM D5185m | | 806 | 720 | 815 |
| Calcium | ppm | ASTM D5185m | | 1700 | 1506 | 1476 |
| Phosphorus | ppm | ASTM D5185m | | 961 | 863 | 858 |
| Zinc | ppm | ASTM D5185m | | 1150 | 1015 | 992 |
| Sulfur | ppm | ASTM D5185m | | 2903 | 2607 | 3381 |
| Oxidation | Abs/.1mm | *ASTM D7414 | >25 | 17.5 | 17.6 | 18 |
| Base Number (BN) | mg KOH/g | ASTM D2896 | 13.6 | 9.1 | 9.3 | 9.2 |
| Visc @ 100°C | cSt | ASTM D445 | 15.4 | 14.3 | 13.2 | 11.1 |



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : JR0077012 **Received** : 25 Feb 2021
Lab Number : 05190775 **Tested** : 26 Feb 2021
Unique Number : 9381073 **Diagnosed** : 26 Feb 2021 - Wes Davis
Test Package : MOBCE (Additional Tests: TBN)

JRE - EDINBURG
 601 NORTH MAIN ST
 WOODSTOCK, VA
 US 22664
 Contact: MIKE SECHLER
 MSECHLER@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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