



OIL ANALYSIS REPORT

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



Area
Store 4 - Fairmont [RO#145877]
Machine Id
JOHN DEERE 672G 1DW672GXAKF701302
Component
Diesel Engine
Fluid
JOHN DEERE ENGINE OIL PLUS 50 II 15W40 (8 GAL)

RECOMMENDATION

Resample at the next service interval to monitor.

| Test | UOM | Method | Limit/Abn | Current | History1 | History2 |
|----------------|-----|-------------|-----------|--------------------|-------------|-------------|
| Sample Number | | Client Info | | LEC0047024 | LEC0034138 | LEC0012881 |
| Sample Date | | Client Info | | 11 Jan 2024 | 19 Aug 2022 | 03 Nov 2020 |
| Machine Age | hrs | Client Info | | 1209 | 854 | 428 |
| Oil Age | hrs | Client Info | | 353 | 426 | 428 |
| Filter Age | hrs | Client Info | | 353 | 428 | 428 |
| Oil Changed | | Client Info | | Changed | Not Changed | Changed |
| Filter Changed | | Client Info | | Changed | N/A | Changed |
| Sample Status | | | | NORMAL | NORMAL | ABNORMAL |

WEAR

All component wear rates are normal.

| | | | | | | |
|--------------|--------|-------------|------|--------------|------|------|
| Iron | ppm | ASTM D5185m | >51 | 64 | 64 | 52 |
| Chromium | ppm | ASTM D5185m | >11 | 1 | 1 | 1 |
| Nickel | ppm | ASTM D5185m | >5 | 3 | 4 | ▲ 16 |
| Titanium | ppm | ASTM D5185m | | <1 | <1 | <1 |
| Silver | ppm | ASTM D5185m | >3 | 0 | <1 | 0 |
| Aluminum | ppm | ASTM D5185m | >31 | 7 | 7 | 7 |
| Lead | ppm | ASTM D5185m | >26 | <1 | <1 | 2 |
| Copper | ppm | ASTM D5185m | >26 | 2 | 5 | 15 |
| 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

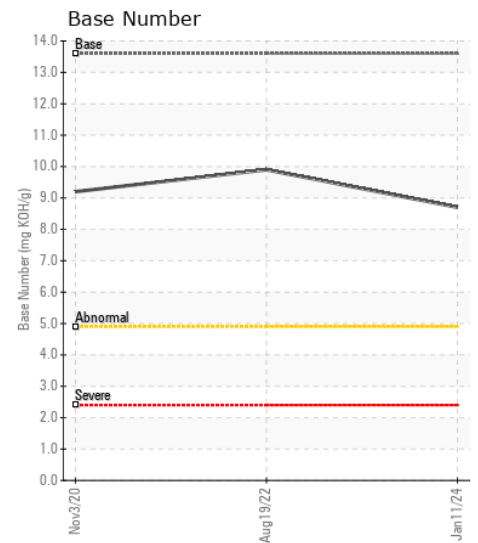
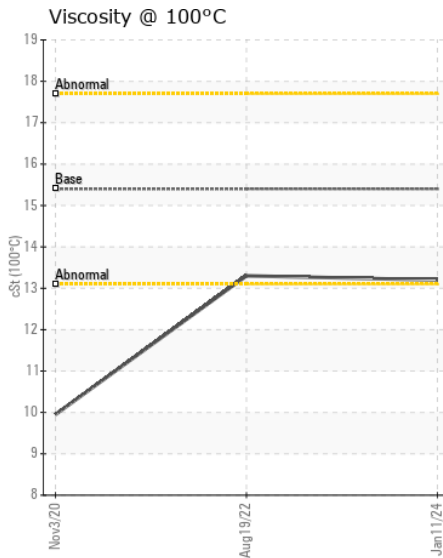
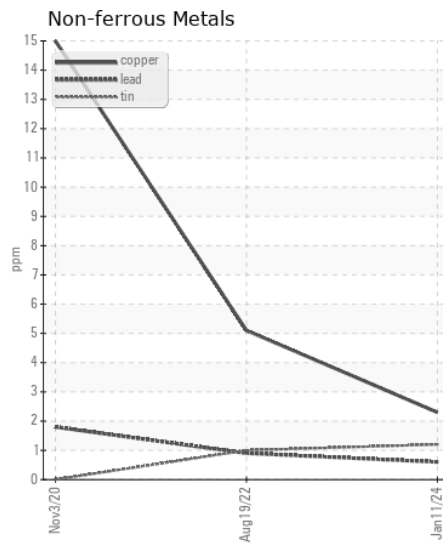
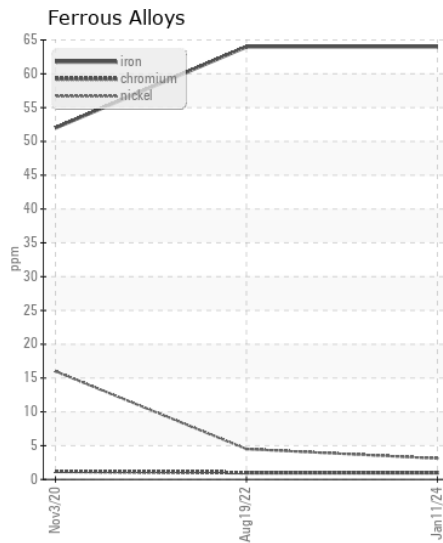
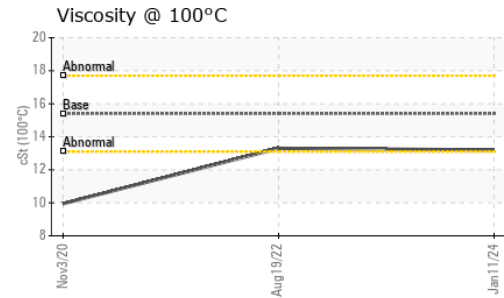
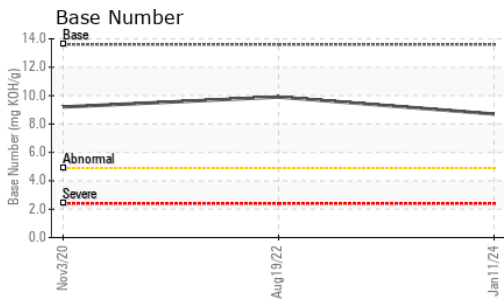
There is no indication of any contamination in the oil.

| | | | | | | |
|------------------|----------|-------------|-------|----------------|-------|-------|
| Silicon | ppm | ASTM D5185m | >120 | 8 | 7 | 9 |
| Potassium | ppm | ASTM D5185m | >20 | 3 | 8 | 15 |
| 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 | 0.2 | 0.2 | 0.1 |
| Nitration | Abs/cm | *ASTM D7624 | >20 | 7.9 | 9.2 | 7.9 |
| Sulfation | Abs/.1mm | *ASTM D7415 | >30 | 21.0 | 22.7 | 21.2 |
| 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 | 3 | 0 | 9 |
| Boron | ppm | ASTM D5185m | | 211 | 211 | 231 |
| Barium | ppm | ASTM D5185m | | <1 | 0 | 2 |
| Molybdenum | ppm | ASTM D5185m | | 229 | 246 | 249 |
| Manganese | ppm | ASTM D5185m | | 1 | 2 | 3 |
| Magnesium | ppm | ASTM D5185m | | 787 | 687 | 833 |
| Calcium | ppm | ASTM D5185m | | 1441 | 1438 | 1553 |
| Phosphorus | ppm | ASTM D5185m | | 947 | 850 | 927 |
| Zinc | ppm | ASTM D5185m | | 1134 | 998 | 1051 |
| Sulfur | ppm | ASTM D5185m | | 3022 | 2796 | 2608 |
| Oxidation | Abs/.1mm | *ASTM D7414 | >25 | 15.2 | 17.0 | 15.7 |
| Base Number (BN) | mg KOH/g | ASTM D2896 | 13.6 | 8.7 | 9.9 | 9.2 |
| Visc @ 100°C | cSt | ASTM D445 | 15.4 | 13.2 | 13.3 | ▲ 9.95 |



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : LEC0047024 **Received** : 12 Jan 2024
Lab Number : 06060057 **Diagnosed** : 16 Jan 2024
Unique Number : 10831439 **Diagnostician** : 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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