



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

Machine Id
JOHN DEERE 130
 Component
Diesel Engine
 Fluid
MOBIL 15W40 (--- QTS)

RECOMMENDATION

Resample at the next service interval to monitor.

| Test | UOM | Method | Limit/Abn | Current | History1 | History2 |
|----------------|-----|-------------|-----------|--------------------|-------------|-------------|
| Sample Number | | Client Info | | JR0189711 | JR0189728 | JR0135327 |
| Sample Date | | Client Info | | 08 Apr 2024 | 24 Jan 2024 | 10 Oct 2023 |
| Machine Age | hrs | Client Info | | 7014 | 6500 | 5993 |
| Oil Age | hrs | Client Info | | 500 | 500 | 500 |
| Filter Age | hrs | Client Info | | 500 | 500 | 500 |
| 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 | 10 | 8 | 10 |
| Chromium | ppm | ASTM D5185m | >11 | <1 | 0 | <1 |
| Nickel | ppm | ASTM D5185m | >5 | 0 | <1 | <1 |
| Titanium | ppm | ASTM D5185m | | 0 | 0 | 0 |
| Silver | ppm | ASTM D5185m | >3 | 0 | 0 | 0 |
| Aluminum | ppm | ASTM D5185m | >31 | <1 | 1 | 2 |
| Lead | ppm | ASTM D5185m | >26 | 0 | 0 | <1 |
| Copper | ppm | ASTM D5185m | >26 | <1 | 0 | 1 |
| Tin | ppm | ASTM D5185m | >4 | 0 | <1 | <1 |
| Vanadium | ppm | ASTM D5185m | | 0 | 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.

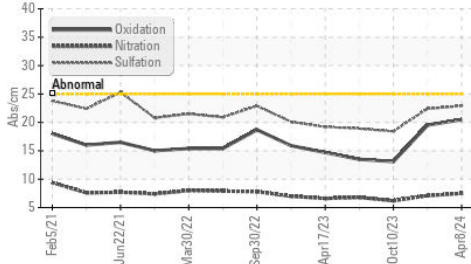
| | | | | | | |
|------------------|----------|-------------|-------|----------------|-------|-------|
| Silicon | ppm | ASTM D5185m | >22 | 6 | 6 | 6 |
| Potassium | ppm | ASTM D5185m | >20 | 0 | 1 | 3 |
| Fuel | | WC Method | >2.1 | <1.0 | <1.0 | <1.0 |
| Water | | WC Method | >0.21 | NEG | NEG | NEG |
| Glycol | | WC Method | | NEG | NEG | NEG |
| Soot % | % | *ASTM D7844 | >3 | 0.5 | 0.4 | 0.3 |
| Nitration | Abs/cm | *ASTM D7624 | >20 | 7.5 | 7.1 | 6.2 |
| Sulfation | Abs/.1mm | *ASTM D7415 | >30 | 22.9 | 22.4 | 18.4 |
| 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

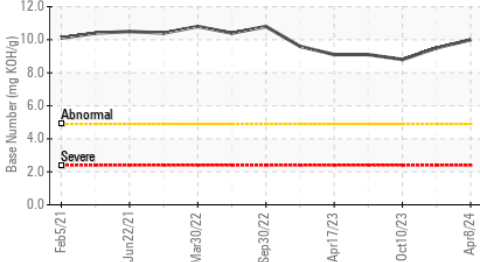
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

| | | | | | | |
|------------------|----------|-------------|------|--------------|------|------|
| Sodium | ppm | ASTM D5185m | >118 | 2 | 3 | 12 |
| Boron | ppm | ASTM D5185m | | 37 | 32 | 6 |
| Barium | ppm | ASTM D5185m | | 0 | 0 | 0 |
| Molybdenum | ppm | ASTM D5185m | | 42 | 39 | 70 |
| Manganese | ppm | ASTM D5185m | | <1 | <1 | <1 |
| Magnesium | ppm | ASTM D5185m | | 549 | 527 | 1050 |
| Calcium | ppm | ASTM D5185m | | 1796 | 1538 | 1576 |
| Phosphorus | ppm | ASTM D5185m | | 966 | 915 | 1304 |
| Zinc | ppm | ASTM D5185m | | 1150 | 1110 | 1567 |
| Sulfur | ppm | ASTM D5185m | | 3198 | 2791 | 5258 |
| Oxidation | Abs/.1mm | *ASTM D7414 | >25 | 20.5 | 19.5 | 13.1 |
| Base Number (BN) | mg KOH/g | ASTM D2896 | | 10.0 | 9.5 | 8.8 |
| Visc @ 100°C | cSt | ASTM D445 | | 12.8 | 12.5 | 12.8 |

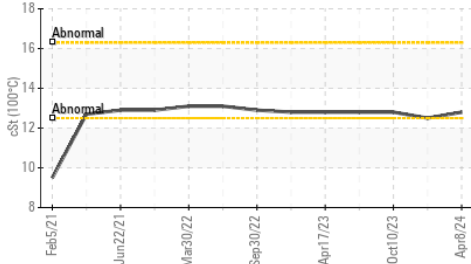
FT-IR (Direct Trend)



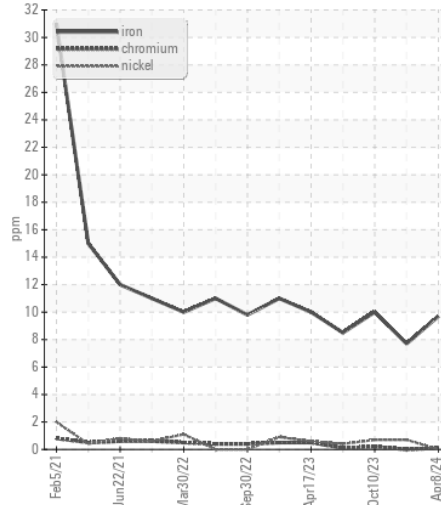
Base Number



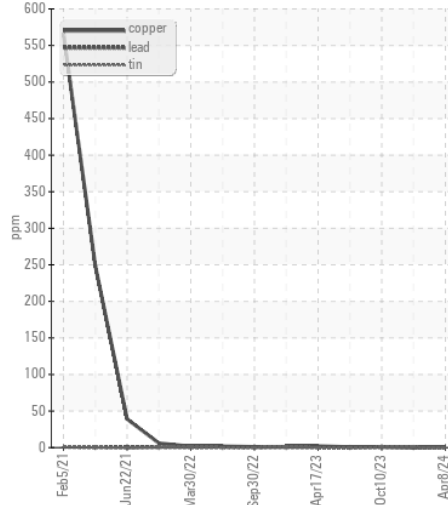
Viscosity @ 100°C



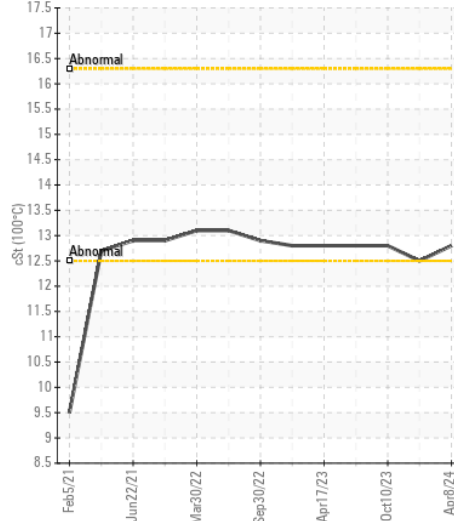
Ferrous Alloys



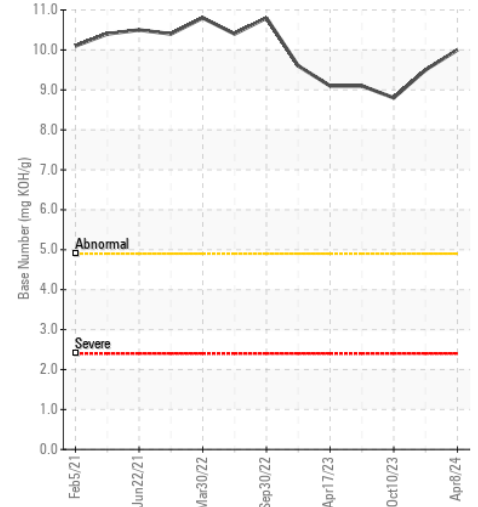
Non-ferrous Metals



Viscosity @ 100°C



Base Number



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : JR0189711 **Received** : 24 Apr 2024
Lab Number : 06158855 **Tested** : 25 Apr 2024
Unique Number : 10994278 **Diagnosed** : 25 Apr 2024 - Wes Davis
Test Package : CONST (Additional Tests: TBN)

THE SCOTTS COMPANY
 3175 BRIGHT LEAF RD
 LAWRENCEVILLE, VA
 US 23868
 Contact: REX WATSON

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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