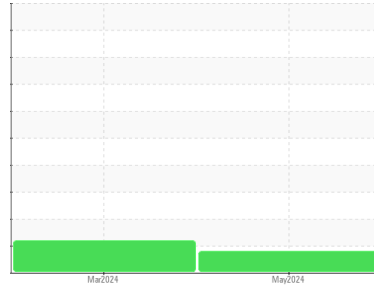


OIL ANALYSIS REPORT

Sample Rating Trend


WEAR


Machine Id
JOHN DEERE 138
Component
Diesel Engine
Fluid
MOBIL 15W40 (--- GAL)

DIAGNOSIS

▲ Recommendation

Oil and filter change at the time of sampling has been noted. No corrective action is recommended at this time. Resample at the next service interval to monitor.

▲ Wear

The copper level has decreased, but is still abnormal. All other component wear rates are normal.

Contamination

There is no indication of any contamination in the oil.

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.

| SAMPLE INFORMATION | | method | limit/base | current | history1 | history2 |
|--------------------|-------------|-------------|------------|--------------------|-------------|----------|
| Sample Number | Client Info | | | JR0189815 | JR0189884 | --- |
| Sample Date | Client Info | | | 24 May 2024 | 18 Mar 2024 | --- |
| Machine Age | hrs | Client Info | | 998 | 500 | --- |
| Oil Age | hrs | Client Info | | 500 | 500 | --- |
| Oil Changed | Client Info | | | Changed | Changed | --- |
| Sample Status | | | | ABNORMAL | ABNORMAL | --- |

| CONTAMINATION | | method | limit/base | current | history1 | history2 |
|---------------|-----------|--------|------------|----------------|----------|----------|
| Fuel | WC Method | >2.1 | | <1.0 | 0.3 | --- |
| Water | WC Method | >0.21 | | NEG | NEG | --- |
| Glycol | WC Method | | | NEG | NEG | --- |

| WEAR METALS | | method | limit/base | current | history1 | history2 |
|-------------|-----|-------------|------------|--------------|--------------|----------|
| Iron | ppm | ASTM D5185m | >51 | 21 | 30 | --- |
| Chromium | ppm | ASTM D5185m | >11 | 1 | <1 | --- |
| Nickel | ppm | ASTM D5185m | >5 | 2 | 4 | --- |
| Titanium | ppm | ASTM D5185m | | <1 | <1 | --- |
| Silver | ppm | ASTM D5185m | >3 | 0 | 0 | --- |
| Aluminum | ppm | ASTM D5185m | >31 | 1 | 5 | --- |
| Lead | ppm | ASTM D5185m | >26 | <1 | <1 | --- |
| Copper | ppm | ASTM D5185m | >26 | ▲ 185 | ▲ 589 | --- |
| Tin | ppm | ASTM D5185m | >4 | 2 | 3 | --- |
| Vanadium | ppm | ASTM D5185m | | 0 | 0 | --- |
| Cadmium | ppm | ASTM D5185m | | <1 | 0 | --- |

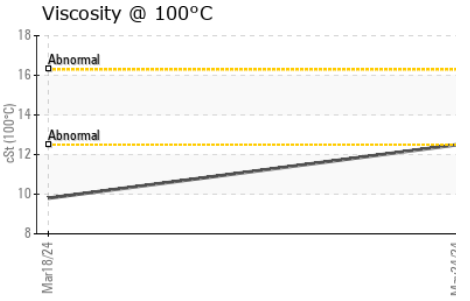
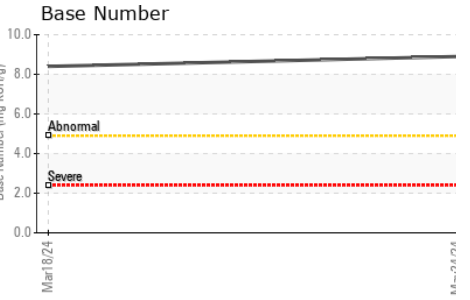
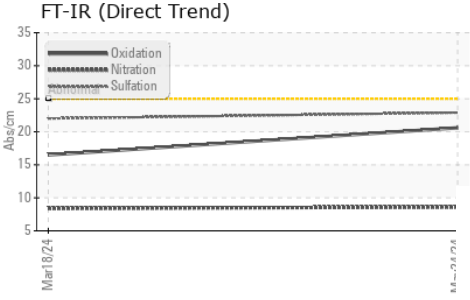
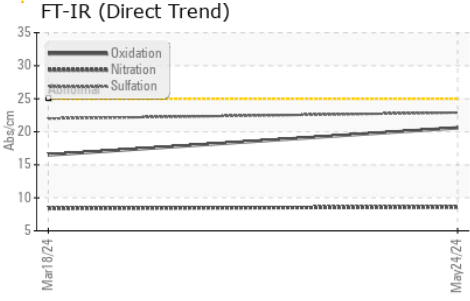
| ADDITIVES | | method | limit/base | current | history1 | history2 |
|------------|-----|-------------|------------|--------------|----------|----------|
| Boron | ppm | ASTM D5185m | | 36 | 197 | --- |
| Barium | ppm | ASTM D5185m | | 0 | 3 | --- |
| Molybdenum | ppm | ASTM D5185m | | 65 | 249 | --- |
| Manganese | ppm | ASTM D5185m | | <1 | 4 | --- |
| Magnesium | ppm | ASTM D5185m | | 546 | 795 | --- |
| Calcium | ppm | ASTM D5185m | | 1706 | 1415 | --- |
| Phosphorus | ppm | ASTM D5185m | | 992 | 907 | --- |
| Zinc | ppm | ASTM D5185m | | 1171 | 1067 | --- |
| Sulfur | ppm | ASTM D5185m | | 3144 | 3330 | --- |

| CONTAMINANTS | | method | limit/base | current | history1 | history2 |
|--------------|-----|-------------|------------|----------|----------|----------|
| Silicon | ppm | ASTM D5185m | >22 | 5 | 11 | --- |
| Sodium | ppm | ASTM D5185m | >118 | 2 | 5 | --- |
| Potassium | ppm | ASTM D5185m | >20 | 2 | <1 | --- |

| INFRA-RED | | method | limit/base | current | history1 | history2 |
|-----------|----------|-------------|------------|-------------|----------|----------|
| Soot % | % | *ASTM D7844 | >3 | 0.4 | 0.3 | --- |
| Nitration | Abs/cm | *ASTM D7624 | >20 | 8.6 | 8.4 | --- |
| Sulfation | Abs/.1mm | *ASTM D7415 | >30 | 22.9 | 22.0 | --- |

| FLUID DEGRADATION | | method | limit/base | current | history1 | history2 |
|-------------------|----------|-------------|------------|-------------|----------|----------|
| Oxidation | Abs/.1mm | *ASTM D7414 | >25 | 20.6 | 16.5 | --- |
| Base Number (BN) | mg KOH/g | ASTM D2896 | | 8.9 | 8.4 | --- |

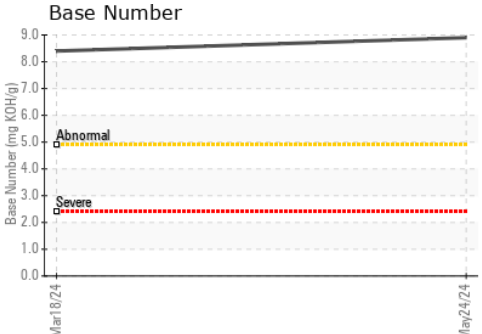
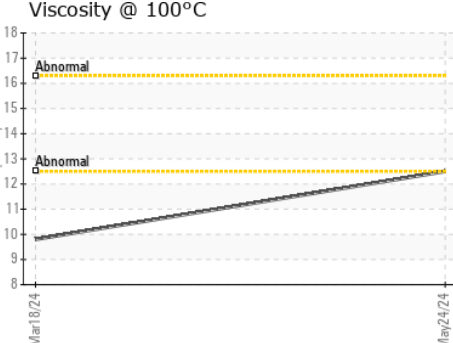
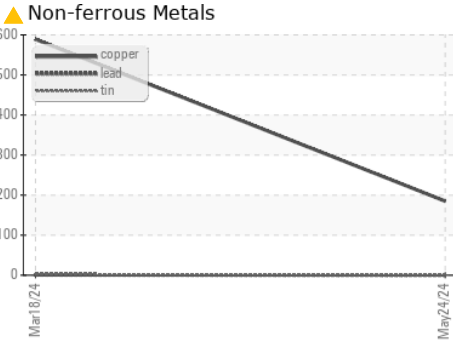
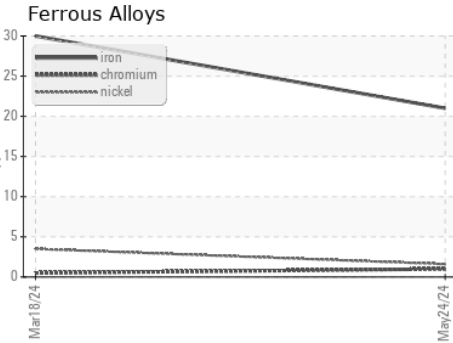
OIL ANALYSIS REPORT



| VISUAL | method | limit/base | current | history1 | history2 |
|------------------|--------|------------|---------|----------|----------|
| White Metal | scalar | *Visual | NONE | NONE | --- |
| Yellow Metal | scalar | *Visual | NONE | NONE | --- |
| Precipitate | scalar | *Visual | NONE | NONE | --- |
| 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 | --- |
| Free Water | scalar | *Visual | | NEG | --- |

| FLUID PROPERTIES | method | limit/base | current | history1 | history2 |
|------------------|--------|------------|---------|----------|----------|
| Visc @ 100°C | cSt | ASTM D445 | 12.5 | 9.8 | --- |

GRAPHS



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : JR0189815 **Received** : 03 Jun 2024
Lab Number : 06197475 **Tested** : 04 Jun 2024
Unique Number : 11059598 **Diagnosed** : 04 Jun 2024 - Don Baldrige
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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