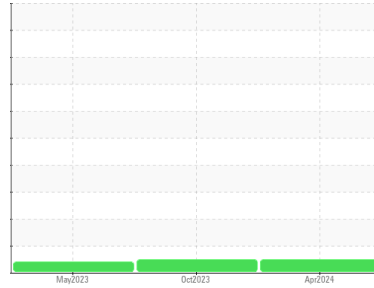




OIL ANALYSIS REPORT

Sample Rating Trend

NORMAL



Machine Id
JOHN DEERE 844P 223-2301
 Component
Diesel Engine
 Fluid
SAE 0W40 (--- GAL)

DIAGNOSIS

Recommendation

Resample at the next service interval to monitor.

Wear

All component wear rates are normal.

Contamination

There is no indication of any contamination in the oil.

Fluid Condition

The condition of the oil is acceptable for the time in service.

SAMPLE INFORMATION

| | method | limit/base | current | history1 | history2 |
|---------------|-------------|-------------|--------------------|-------------|-------------|
| Sample Number | Client Info | | WC0914640 | WC0423836 | WC0423831 |
| Sample Date | Client Info | | 03 Apr 2024 | 02 Oct 2023 | 18 May 2023 |
| Machine Age | hrs | Client Info | 2761 | 1655 | 527 |
| Oil Age | hrs | Client Info | 500 | 650 | 0 |
| Oil Changed | Client Info | | Changed | Changed | N/A |
| Sample Status | | | NORMAL | NORMAL | ABNORMAL |

CONTAMINATION

| | method | limit/base | current | history1 | history2 |
|--------|-----------|------------|----------------|----------|----------|
| Fuel | WC Method | >5 | <1.0 | <1.0 | 1.7 |
| Water | WC Method | >0.2 | NEG | NEG | NEG |
| Glycol | WC Method | | NEG | NEG | NEG |

WEAR METALS

| | method | limit/base | current | history1 | history2 | |
|-----------|--------|---------------|---------|-----------|----------|-----|
| Iron | ppm | ASTM D5185(m) | >100 | 20 | 30 | 49 |
| Chromium | ppm | ASTM D5185(m) | >20 | 0 | <1 | <1 |
| Nickel | ppm | ASTM D5185(m) | >4 | 0 | <1 | <1 |
| Titanium | ppm | ASTM D5185(m) | | 0 | 0 | <1 |
| Silver | ppm | ASTM D5185(m) | >3 | 0 | <1 | 0 |
| Aluminum | ppm | ASTM D5185(m) | >20 | 6 | 3 | 5 |
| Lead | ppm | ASTM D5185(m) | >40 | 1 | 4 | 18 |
| Copper | ppm | ASTM D5185(m) | >330 | 8 | 31 | 168 |
| Tin | ppm | ASTM D5185(m) | >15 | 1 | 4 | 12 |
| Antimony | ppm | ASTM D5185(m) | | 0 | 0 | 0 |
| Vanadium | ppm | ASTM D5185(m) | | 0 | 0 | <1 |
| Beryllium | ppm | ASTM D5185(m) | | 0 | 0 | 0 |
| Cadmium | ppm | ASTM D5185(m) | | 0 | 0 | 0 |

ADDITIVES

| | method | limit/base | current | history1 | history2 | |
|------------|--------|---------------|---------|--------------|----------|------|
| Boron | ppm | ASTM D5185(m) | | 2 | 2 | 140 |
| Barium | ppm | ASTM D5185(m) | | 0 | <1 | 1 |
| Molybdenum | ppm | ASTM D5185(m) | | <1 | 5 | 235 |
| Manganese | ppm | ASTM D5185(m) | | 0 | <1 | 15 |
| Magnesium | ppm | ASTM D5185(m) | | 22 | 34 | 781 |
| Calcium | ppm | ASTM D5185(m) | | 2263 | 2268 | 1465 |
| Phosphorus | ppm | ASTM D5185(m) | | 938 | 915 | 903 |
| Zinc | ppm | ASTM D5185(m) | | 1098 | 1116 | 992 |
| Sulfur | ppm | ASTM D5185(m) | | 3087 | 3020 | 2369 |
| Lithium | ppm | ASTM D5185(m) | | <1 | <1 | <1 |

CONTAMINANTS

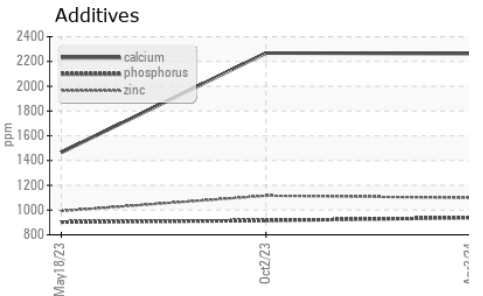
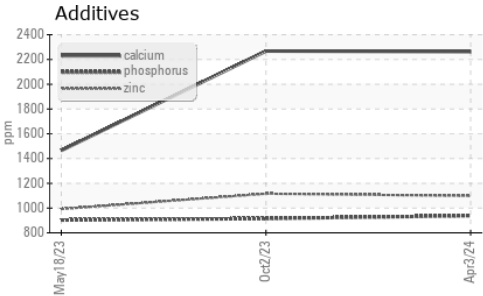
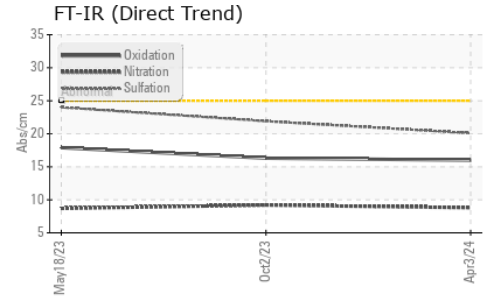
| | method | limit/base | current | history1 | history2 | |
|-----------|--------|---------------|---------|--------------|----------|----|
| Silicon | ppm | ASTM D5185(m) | >25 | 3 | 4 | 15 |
| Sodium | ppm | ASTM D5185(m) | | 3 | 6 | 12 |
| Potassium | ppm | ASTM D5185(m) | >20 | <1 | 0 | 6 |

INFRA-RED

| | method | limit/base | current | history1 | history2 | |
|-----------|----------|-------------|---------|-------------|----------|------|
| Soot % | % | ASTM D7844* | >3 | 0.5 | 0.7 | 0.5 |
| Nitration | Abs/cm | ASTM D7624* | >20 | 8.8 | 9.2 | 8.7 |
| Sulfation | Abs/.1mm | ASTM D7415* | >30 | 20.1 | 21.9 | 24.0 |



OIL ANALYSIS REPORT

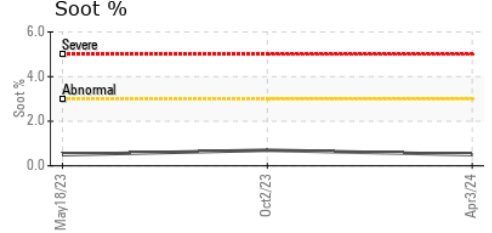
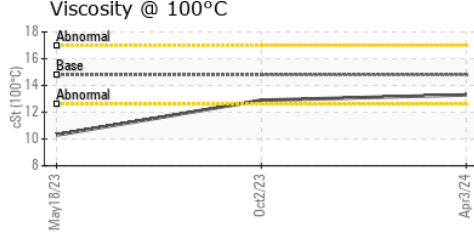
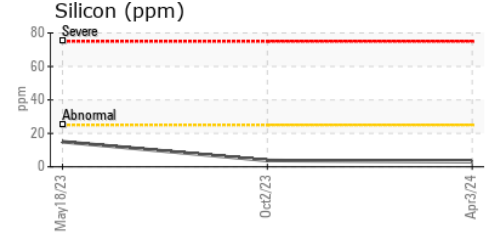
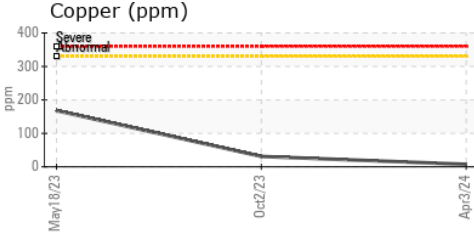
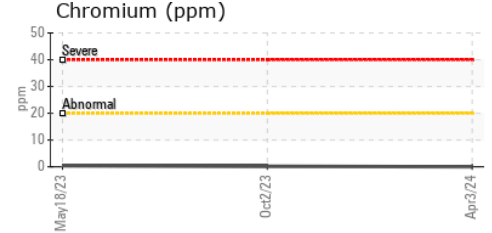
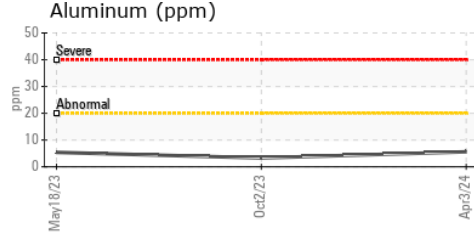
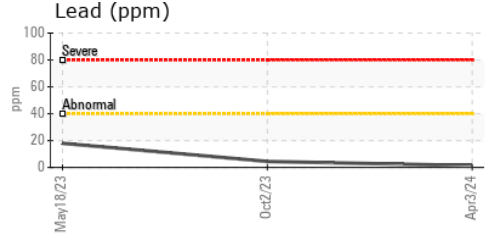
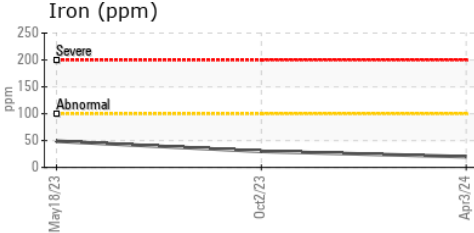


| FLUID DEGRADATION | method | limit/base | current | history1 | history2 | |
|-------------------|----------|-------------|---------|-------------|----------|------|
| Oxidation | Abs./1mm | ASTM D7414* | >25 | 16.0 | 16.3 | 17.9 |

| VISUAL | method | limit/base | current | history1 | history2 | |
|------------------|--------|------------|---------|--------------|----------|-------|
| White Metal | scalar | Visual* | NONE | NONE | NONE | --- |
| Yellow Metal | scalar | Visual* | NONE | NONE | NONE | --- |
| Precipitate | scalar | Visual* | NONE | NONE | NONE | --- |
| Silt | scalar | Visual* | NONE | VLITE | NONE | --- |
| Debris | scalar | Visual* | NONE | VLITE | NONE | --- |
| Sand/Dirt | scalar | Visual* | NONE | NONE | VLITE | --- |
| Appearance | scalar | Visual* | NORML | NORML | NORML | --- |
| Odor | scalar | Visual* | NORML | NORML | NORML | NORML |
| Emulsified Water | scalar | Visual* | >0.2 | NEG | NEG | NEG |
| Free Water | scalar | Visual* | | NEG | NEG | NEG |

| FLUID PROPERTIES | method | limit/base | current | history1 | history2 | |
|------------------|--------|---------------|---------|-------------|----------|--------|
| Visc @ 100°C | cSt | ASTM D7279(m) | 14.8 | 13.3 | 12.9 | ▲ 10.3 |

GRAPHS



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : WC0914640 **Received** : 04 Apr 2024
Lab Number : **02626533** **Tested** : 04 Apr 2024
Unique Number : 5759665 **Diagnosed** : 04 Apr 2024 - Wes Davis
Test Package : MOB 1 (Additional Tests: Visual)

E.C. KING CONTRACTING
 2125 - 20TH AVENUE EAST
 OWEN SOUND, ON
 CA N4K 5P7
 Contact: Daniel Fleet
 daniel.fleet@millergroup.ca
 T:
 F: (519)371-2783

To discuss this sample report, contact Customer Service at 1-800-268-2131.
 Test denoted (*) outside scope of accreditation, (m) method modified, (e) tested at external lab.
 Validity of results and interpretation are based on the sample and information as supplied.