



Lubricant Analysis Report

North America: +1-877-808-3750
 Latin America: +1-317-808-3750 / +502-3093-6466 (WhatsApp)
 Europe: +1-317-808-3750

| | | | | |
|--------|---|----------|----------|---|
| 0 | 1 | 2 | 3 | 4 |
| NORMAL | | ABNORMAL | CRITICAL | |

Overall report severity based on comments.

| Account Information | | Component Information | | Sample Information | |
|---|---|---|--|---|--|
| Account Number: 153995-0003-0000 Company Name: BOOM & BUCKET Contact: STEVEN MESA Address: 701 BRAZOS ST. STE 300 AUSTIN, TX US Phone Number: 888-417-3477 | | Component ID: 1FF050DXPCG277232 E Secondary ID: 2012 JOHN DEERE Component Type: DIESEL ENGINE Manufacturer: JOHN DEERE Model: 50D Application: UNKNOWN Sump Capacity: | | Tracking Number: 23249S06303 Lab Number: H-485988 Lab Location: Houston Data Analyst: JPH Sampled: 28-Sep-2023 Received: 03-Oct-2023 Completed: 05-Oct-2023 | |
| Filter Information | | Miscellaneous Information | | Product Information | |
| Filter Type: Information Requested Micron Rating: 0 | | | | Product Manufacturer: Information Requested Product Name: Information Requested Viscosity Grade: Information Requested | |
| Comments | Flagged data does not indicate an immediate need for maintenance action. Continue to observe the trend and monitor equipment and fluid conditions. Base number is flagged, however without complete lubricant information, the starting point for this lubricant cannot be determined. FUEL DILUTION is at a MINOR LEVEL. FUEL DILUTION possibly caused by excessive idling; Aluminum is at a MINOR LEVEL; ALUMINUM sources in ENGINES include pistons, block and components (intake manifold, head, bearing caps), thrust bearings, main/rod bearing overlay or backing, alumina silica, or contamination from grease. Please provide missing lubricant information. Manufacturer, product name, and viscosity grade are needed to properly evaluate lubricant properties. Unit and/or lubricant TIME missing. Please provide this units sump capacity with next sample. | | | | |

| Sample # | Wear Metals (ppm) | | | | | | | | | | Contaminant Metals (ppm) | | | Multi-Source Metals (ppm) | | | | | Additive Metals (ppm) | | | | | |
|----------|-------------------|----------|--------|----------|--------|------|-----|---------|--------|----------|--------------------------|--------|-----------|---------------------------|------------|----------|-----------|---------|-----------------------|-----------|---------|--------|------------|------|
| | Iron | Chromium | Nickel | Aluminum | Copper | Lead | Tin | Cadmium | Silver | Vanadium | Silicon | Sodium | Potassium | Titanium | Molybdenum | Antimony | Manganese | Lithium | Boron | Magnesium | Calcium | Barium | Phosphorus | Zinc |
| 1 | 16 | 0 | 0 | 6 | 1 | 1 | 0 | 0 | 0 | 0 | 14 | 1 | 1 | 8 | 107 | 0 | 0 | 0 | 272 | 594 | 1532 | 0 | 730 | 927 |

| Sample Information | | | | | | | | | Contaminants | | | Fluid Properties | | | | |
|--------------------|--------------|---------------|-----------|-----------|-------------|------------|---------------|---------------|--------------|------------|----------------|------------------|-------------|----------------|-----------|-------------|
| Sample # | Date Sampled | Date Received | Lube Time | Unit Time | Lube Change | Lube Added | Filter Change | Fuel Dilution | Soot | Water | Viscosity 40°C | Viscosity 100 °C | Acid Number | Base No. D4739 | Oxidation | Nitration |
| | | | h | h | | gal | | % | % | % | cSt | cSt | mg KOH / g | mg KOH / g | abs / cm | abs / 0.1mm |
| 1 | 28-Sep-2023 | 03-Oct-2023 | 0 | 0 | Unk | 0 | Unk | 3.0 - GC | 0.1 - E2412 | <.1 - FTIR | | 12.6 | | 3.91 | 15 | 10 |

| Particle Count (particles/mL) | | | | | | | | | | Additional Testing | | |
|-------------------------------|----------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|--------------------|--|--|
| Sample # | ISO Code | > 4 | > 6 | > 10 | > 14 | > 21 | > 38 | > 70 | > 100 | Test Method | | |
| | Based On | particles / mL | particles / mL | particles / mL | particles / mL | particles / mL | particles / mL | particles / mL | particles / mL | | | |
| 1 | 4/6/14 | / / | | | | | | | | | | |

Comments are advisory only and are based on the assumption that the sample and data submitted are valid. Results relate only to the items tested. Missing fluid or component information limits the evaluation. No warranty is expressed or implied. Measurement uncertainty available upon request.