



# Lubricant Analysis Report

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

Overall report severity based on comments.

| Account Information  |   | Component Information   |  | Sample Information   |  |
|--|---|---|--|--|--|
| Account Number: 153995-0002-0001<br>Company Name: BOOM & BUCKET<br>Contact: KRIS HUFF<br>Address: 701 BRAZOS ST<br>AUSTIN, TX 78701 US<br>Phone Number: 909-846-6495 |   | Component ID: 2021 GEN POWER 100KW E<br>Secondary ID:<br>Component Type: DIESEL ENGINE<br>Manufacturer: JOHN DEERE<br>Model: 4045<br>Application: UNKNOWN<br>Sump Capacity: |  | Tracking Number: 22222W10906<br>Lab Number: S-969368<br>Lab Location: Salt Lake City<br>Data Analyst: FLG<br>Sampled: 11-Apr-2023<br>Received: 17-Apr-2023<br>Completed: 17-Apr-2023 |  |
| Filter Information   |   | Miscellaneous Information   |  | Product Information  |  |
| Filter Type: <a href="#">Information Requested</a><br>Micron Rating: 0   |   |   |  | Product Manufacturer: <a href="#">Information Requested</a><br>Product Name: <a href="#">Information Requested</a><br>Viscosity Grade: <a href="#">Information Requested</a>         |  |
| Comments   | Data indicates no abnormal findings. Resample at normal interval. Please provide missing lubricant information. Manufacturer, product name, and viscosity grade are needed to properly evaluate lubricant properties. Unit and/or lubricant TIME missing. |   |  |  |  |

| 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        | 14                | 0        | 0      | 4        | 1      | 1    | 1   | 0       | 0      | 0        | 5                        | 4      | 0         | 0                         | 43         | 0        | 0         | 0       | 40                    | 522       | 1791    | 0      | 790        | 909  |

| Sample # | Sample Information |               |           |           |             |            |               | Contaminants  |             |            | Fluid Properties |                  |             |                |           |             |
|----------|--------------------|---------------|-----------|-----------|-------------|------------|---------------|---------------|-------------|------------|------------------|------------------|-------------|----------------|-----------|-------------|
|          | 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        | 11-Apr-2023        | 17-Apr-2023   | 0         | 0         | Unk         | 0          | Unk           | <2 - Estimate | 0.4 - E2412 | <.1 - FTIR |                  | 13.5             |             | 6.69           | 15        | 7           |

| Sample # | Particle Count (particles/mL) |                |                |                |                |                |                |                |                |             | Additional Testing |  |
|----------|-------------------------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|-------------|--------------------|--|
|          | 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.