



# 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: 153995-0000-0000<br>Company Name: BOOM AND BUCKET<br>Contact: ADAM LAWRENCE/KRIS HUFF<br>Address: C/O SAMIR SHAH 701 BRAZOS ST STE 300 AUSTIN, TX US<br>Phone Number: 213-463-5980/775-225-3529 |  | Component ID: 2019 HITACHI E<br>Secondary ID: B&BA9158355<br>Component Type: UNIDENTIFIED ENGINE<br>Manufacturer: <a href="#">Information Requested</a><br>Model: <a href="#">Information Requested</a><br>Application: UNKNOWN<br>Sump Capacity:                                 |  | Tracking Number: 23265B85721<br>Lab Number: H-597137<br>Lab Location: Houston<br>Data Analyst: FLG<br>Sampled: 18-Jan-2024<br>Received: 29-Jan-2024<br>Completed: 30-Jan-2024 |  |
| 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. In order to properly compare data to the correct standards, please provide COMPONENT MANUFACTURER and MODEL, and the FLUID MANUFACTURER, PRODUCT NAME, and VISCOSITY GRADE. 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        | 5                 | 0        | 0      | 3        | 0      | 0    | 1   | 0       | 0      | 0        | 12                       | 3      | 0         | 0                         | 149        | 1        | 0         | 0                     | 153   | 741       | 1369    | 0      | 820        | 923  |

| 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                  | 18-Jan-2024  | 29-Jan-2024   | 0         | 0         | Unk         | 0          | Unk           | <2 - Estimate | <.1          | <.1 - FTIR |                | 13.9             |             | 6.77           | 12        | 9           |

| 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.