



Lubricant Analysis Report

North America: +1-877-808-3750

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

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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: 153995-0002-0000 Company Name: BOOM & BUCKET Contact: KRIS HUFF Address: 600 CONGRESS AVE AUSTIN, TX US Phone Number: 1888-313-1597/909-846-6495 | | Component ID: A6915826 Secondary ID: 2019 Cat 304E2 CR Component Type: DIESEL ENGINE Manufacturer: Information Requested Model: Information Requested Application: CONSTRUCTION Sump Capacity: | | Tracking Number: 23325P25811 Lab Number: S-171726 Lab Location: Salt Lake City Data Analyst: ARF Sampled: 03-Jun-2024 Submitted: 03-Jun-2024 Received: 05-Jun-2024 Completed: 06-Jun-2024 | |
| 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 | Check for source of FUEL LEAK. Fuel is at a SEVERE LEVEL. Fuel dilution may be caused by component faults related to injectors, ignition/timing, or excessive blow-by. Additional causes include heavy throttle application, engine lugging, frequent short trips and excessive idling. LUBRICANT and FILTER CHANGE is suggested if not done at sampling time. Low viscosity may be due to FUEL DILUTION. FUEL DILUTION reduces the viscosity of the lubricant which decreases FILM STRENGTH and LUBRICITY and may lead to increased wear. 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. LUBRICANT TIME was not provided for this sample. Please provide this units sump capacity with next sample. Your note was taken into consideration. | | | | |

| Wear Metals (ppm) | | | | | | | | | | | Contaminant Metals (ppm) | | | Multi-Source Metals (ppm) | | | | | | Additive Metals (ppm) | | | | |
|-------------------|------|----------|--------|----------|--------|------|-----|---------|--------|----------|--------------------------|--------|-----------|---------------------------|------------|----------|-----------|---------|-------|-----------------------|---------|--------|------------|------|
| Sample # | 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 | 34 | 1 | 1 | 3 | 16 | 0 | 0 | 0 | 0 | 0 | 15 | 6 | 0 | 0 | 39 | 0 | 3 | 0 | 39 | 458 | 1864 | 5 | 889 | 1035 |

| 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 | | unk | | % | % | % | cSt | cSt | mg KOH / g | mg KOH / g | abs / cm | abs / 0.1mm |
| 1 | 03-Jun-2024 | 05-Jun-2024 | 0 | 493 | No | 0 | No | 9.6 - GC | <.1 | <.1 - FTIR | | 9.0 | | 5.71 | 19 | 9 |

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

Comments are advisory only and are based on the sample information provided by the customer being valid. Results related only to the items tested. Missing fluid or component information limits the evaluation. No warranty is expressed or implied. Measurement uncertainty available upon request.