

ENGINEERING, ANALYSIS AND TESTING SERVICES FOR BUS/TRUCK FRAMES, SYSTEMS AND COMPONENTS

Innovation.
Integrity.
Dependability.

DTB can help you bring a better vehicle to market, quicker ...



Dayton T. Brown, Inc.'s capabilities and expertise support a complete evaluation of your design. Whether at the system, subsystem or component level, DTB is ready to:

- Perform finite element analysis of your design(s)
- Carry out fatigue testing of critical system elements
- Fabricate your prototype design
- Provide failure analysis
- Execute accelerated life testing
- Apply breakout testing principles that save on the cost of testing large complex systems
- Formulate methodized manufacturing procedures that meet performance objectives and reduce cost
- Perform environmental testing
- Perform EMI/EMC electrical testing

www.dtbtest.com

A World of Engineering and Testing Under One Roof™



ISO 9001:2000
Certified

NVLAP
accredited
461/462

NEBS
Verizon Approved
Independent
Testing Lab

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Visit our web site at: www.dtbtest.com

Our Bus/Truck Services Include:

Engineering and Analysis:

- Loads and Spectrum Development
- Finite Element Analysis (FEA)
- Specification Development
- Design Improvements/Parts Obsolescence Solutions
- Test Plan/Procedure Development
- Source Identification and Development
- Reverse/Reengineering Programs
- Fatigue and Crack Propagation Analysis
- Logistic Support Analysis and Data Package Development

Inspection/Failure Analysis:

- Scanning Electron Microscopy (SEM)
 - Jeol Model 840 SEM
 - Kevex Energy Dispersive Spectroscopy
 - Image Analysis
- Fractographic Analysis (Macro & Micro)
- Metallography
 - Optical Microscopy
 - Metallographic Examinations
- Digital Photography
- Mechanical Properties Evaluation
 - ASTM Standard Tests
 - Hardness
 - Fatigue Strength
- Corrosion Analysis & Testing
- Arc-Emission Spectrometry
- Coating Analysis/Selection
- Nondestructive Testing
 - Liquid Penetrant
 - Magnetic Particle
 - Radiographic
 - Ultrasonics

Environmental/EMI/EMC Testing:

- Shock
- Vibration
- Humidity
- Salt Fog
- Sand & Dust
- High/Low Temperature
- Combined Environments
- EMI/EMC
- Electrical Testing

Instrumentation and Data Acquisition:

- Strain Gaging
- Crack Wires
- Deflection Measurements
- Load Measurements
- Servo Controlled Fatigue and Static Load Application
- Automated Real Time Data Acquisition to 100 Channels
- Electrical/Electronic Parameter Acquisition
- Data Acquisition During Environmental Exposure

Dimensional Inspection Laboratory:

- Starret and Mitutoyo Coordinate Measuring Machines (CMM)
- Leitz High Accuracy CMM
- Surface Finish
- Digitization of Part Surfaces
- Contour Measurement
- Gear Testing
- Bus/Truck Parts Evaluation
- Complete Inventory of Dimensional Measurement Equipment
- Coating Evaluation

