

LARGE VEHICLE ENGINEERING & TESTING SERVICES

**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 and electrical testing
- Hybrid drive/hybrid power plant evaluation

www.dtb.com



Product Life Cycle Support Services
Serving Military and Commercial Markets
Since 1950



* Accredited Test Lab
767.01, 767.02, 767.03

ISO 9001:2008 and AS9100C
Registered



* NVLAP LAB CODE
200422-0

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Please direct all inquiries to: 1-800-232-6300 • email test@dtb.com
Visit our web site at: www.dtb.com

* Please visit www.dtb.com for testing covered under our scopes of accreditation.

Large Vehicle Services Include:

Engineering and Analysis:

- Loads and Spectrum Development
- Finite Element Analysis (FEA)
- 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)
 - 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

Environmental/EMI/EMC Testing:

- Shock
- Vibration
- Humidity
- Salt Fog
- Sand & Dust
- High/Low Temperature
- Combined Environments
- Electrical Testing
- Indirect Lightning
- Shielding Effectiveness
- EMI/EMC
- Power Testing

Instrumentation and Data Acquisition:

- Strain Gauging
- 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:

- Starrett and Mitutoyo Coordinate Measuring Machines (CMM)
- Leitz High Accuracy CMM
- FARO Arm
- Surface Finish
- Digitization of Part Surfaces
- Contour Measurement
- Gear Testing
- Complete Inventory of Dimensional Measurement Equipment
- Coating Evaluation



A World of Engineering and Testing Under One Roof™

DAYTON T. BROWN, INC.
ENGINEERING & TEST DIVISION



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