



# VIBRATION TEST LABORATORY

## Description

CSA Leyland's full vehicle testing, data collection and analysis services span public roads and test tracks around the world, providing commercial vehicle experts and appropriate instrumentation for the support of development activities. Services range from one off tests to full block mileage accumulation programs and from single vehicle importers to OEMs. For off-track testing, environments can be emulated through VSAC or chassis dynamometer tests. Expertise can be provided for areas such as testing ride and handling assessment, suspension tuning, multi-axle brake systems, NVH and durability.

## Typical Applications

- Sine
- Random
- Sine-on-Random
- Random-on-Random
- Shock
- Road load data
- Data Acquisition & Analysis (including Strain)
- Squeak & Rattle
- Resonance Search / dwell

## Equipment or Facility

### Electro-magnetic Shakers:

- VP85 5.5kN, 5kHz, 25mm
- VP180 8.6kN, 3kHz, 25mm
- LDS824 26kN, 3kHz 37.5mm
- LDS954 32kN, 3kHz, 25mm
- LDSv724 6.7kN, 5-3kN 25mm
- LDS824 24kN 3kHz, 25mm

### Electro-hydraulic Shakers

- 25kN, 200Hz, 50mm
- 50kN, 200Hz, 25mm
- 250kN, 200Hz, 25mm
- Slip tables to allow in service orientation (3 axis)
- Custom made mechanical component actuation
- Environmental: -40°C to 120°C
- Environmental / vibration combination (Plus pressure / fluid)
- On-site fixture design