



Medium- + Heavy-Duty Emissions Testing Get to Market Faster

Offering a wide range of electrification and environmental testing services for medium- and heavy-duty commercial vehicles, Allison's Vehicle Electrification + Environmental Test Center helps customers get to market faster with reliable, seasonally independent testing results — all under one roof in Indianapolis, IN.

This state-of-the-art facility offers quicker testing and accurate, near instantaneous data from a controlled environment for on-highway class 4-8 trucks and off-highway wheeled vehicles.

To meet the ever changing requirements of EPA and CARB for commercial vehicles, this facility offers a full suite of Emissions Testing Capabilities including:

Emissions Measurements of Medium- + Heavy-duty Applications:

- R&D and evaluation of current or future regulatory requirements
- Real-world environmental conditions on vehicle, powertrain and aftertreatment system performance
- User definable vehicle test cycle development that can be derived from in-use telemetry data

Regulatory Equipment:

- Two independent, heated, raw sampling measurements systems
- Raw gaseous emissions measurements (NOX, CO₂, THC, CH₄, CO, NO, NO₂)
- Emissions analysis capabilities across a wide variety of fuels including Hydrogen/CNG/Diesel/Gasoline

Measurement Capabilities:

- Compliant with:
 - EPA40 CFR 1065/1066
 - EPA 1036/1037 GHG phase II testing
 - SAE 1711/2711 for HEV/EV applications
- Fuel economy evaluations using real-time fuel measurement system and emissions carbon balancing
- In-use and production audit testing
- Competitive assessment with high levels of repeatability
- Engine altitude simulation

Motoring Dynamometers:

Two motoring dynamometers eliminate the need to have road-approved vehicles to complete testing, reducing project investments and saving valuable time.

- Two heavy-duty AWD dynamometers
- Capable of vehicle road simulations of 4,000 – 82,000lbs (1,815kg – 37,195kg)
- Up to +/- 30 degrees of road grade
- Regenerative brake testing for mechanical and electrical development
- Concurrent environmental simulation temperature range of -54° to +125°F (-48° to + 51°C) while testing



Test With Confidence

All testing in this facility is secured, operated and managed independently from Allison Transmission, Inc., keeping customer IP, data and property secure and confidential.

For more information or to schedule a tour, contact:

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