

The Intertek logo is a dark blue rounded rectangle with the word "Intertek" in white, bold, sans-serif font.

Valued Quality. Delivered.

# Engine Emission Testing Service

For years, Governments around the globe have worked to regulate pollution generated through engine emissions testing. As air quality monitoring and technology advances, increased efforts are being spent to understand and limit engine emissions. For these reasons, it is critical to have the tools necessary to perform advanced and reliable engine emissions testing. Automotive Research's Engine Emissions Testing Laboratory has the capability to perform a wide variety of engine emission testing programs for the engine manufacturers and their suppliers.





Intertek-AR offers off site portal presence, allowing clients to view testing anywhere & real time via web link, with test engineers assigned to each program quality can be ensured. We are ISO/IEC 17025 accredited.

#### Available Emission Testing Equipment

- 1065 CVS with Double-Dilute PM Measurement
- Dedicated clean/weight room (EPA Title 40, Part 1065 compliant) and high precision/accurate micro-balance for the measurement of particulate mass
- A/C Dynamometers - 600 hp, 2,100 ft\*lb, motoring
- Eddy current dynamometers – up to 1,200 hp, 6,300 ft\*lb
- Multi constituent emissions benches including real time dual port raw emissions
- Combustion analysis equipment
- Partial dilution tunnel for particulate mass measurement
- Smoke meters (Filter Smoke Number)
- Opacity meters
- Precision crank angle encoders
- Engine ECM interface equipment
- State of the art stand automation and control systems

#### Typical Test Programs

- FTP On-Road Transient Test Cycle
- Non-road Transient Test Cycle
- World Harmonized Transient Cycle (WHTC)
- European Transient Cycle (ETC)
- ISO 8178 testing
- X-mode testing (ie, 8 mode, 13 mode, etc)
- Other steady state testing protocol
- EPA test protocols (Part 86, 89, 94, 1065, etc.)
- Production audit testing
- Marine testing
- Combustion development
- Deterioration factor (DF) testing
- OBD function verifications
- Performance development testing
- Aftertreatment testing
- Catalyst testing
- Calibration optimization
- Particulate mass studies

#### Service Benefits

In addition to providing consistent, reliable, quality service, we are available to assist customers seeking advice with field related issues. This includes our participation in internal task forces/ staff meetings, committees, training and other industry activities. We pride ourselves on a high-level of customer interaction.

We have experts on staff that are proficient with diagnostic/PCM manipulation equipment. They use solid engineering judgment to resolve problems and have the appropriate measures in place to avoid catastrophic failures.

#### The Intertek Advantage

Intertek Automotive Research is one of the largest independent automotive testing organizations in the world providing testing services since 1953 to the automotive and petrochemical industries. Based in San Antonio, Texas, our customer focused staff has a proven record of being very responsive to customer needs and special testing demands. Our customer base is worldwide and consists of the automotive OEM's, the heavy-duty engine OEM's, the OEM suppliers, and the fuel and lubricant companies.

Intertek is a leading provider of quality and safety solutions serving a wide range of industries around the world. From auditing and inspection, to testing, quality assurance and certification, Intertek people are dedicated to adding value to customers' products and processes, supporting their success in the global marketplace. Intertek has the expertise, resources and global reach to support its customers through its network of more than 1,000 laboratories and offices and 30,000 people in over 100 countries around the world.

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