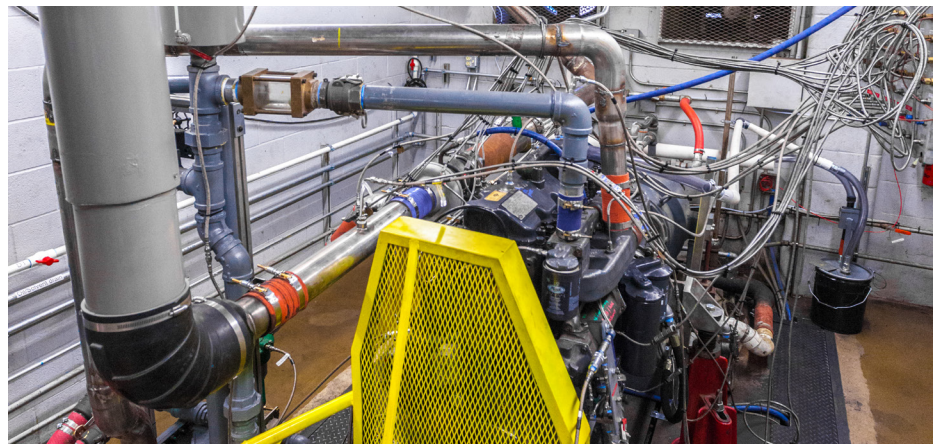


INTERTEK SAN ANTONIO

TRANSPORTATION TECHNOLOGIES LAB

For over 60 years, the Intertek automotive testing facilities in San Antonio, TX have been providing customer focused, independent testing services for the automotive, fuel and lubricant industries.



Overview

Intertek San Antonio consists of three laboratory sites and is one of the largest independent testing organizations in the world providing testing services since 1953 to the automotive and petrochemical industries. We offer customer focused solutions to automotive and heavy-duty OEM's, off-road and non-road OEM's, OEM suppliers and fuel and lubricant companies.

Lab Certifications

ISO/IEC 17025

Local Contact Information

5404 Bandera Road
San Antonio, TX 78238
Tel: +1-210-684-2310
Operations Manager: John Glaser

Primary Lab Capabilities

- Engine emissions, performance, development and durability testing
- Vehicle performance and durability testing
- Powertrain testing
- Fleet evaluation
- Fuel system component testing
- Volatile Organic Compounds (VOC)
- SHED testing
- Analytical chemistry testing
- Lubricant qualification testing

About Intertek

Total Quality. Assured.

Intertek is a leading Total Quality Assurance provider to industries worldwide. Our network of more than 1,000 laboratories and offices and over 42,000 people in more than 100 countries, delivers innovative and bespoke Assurance, Testing, Inspection and Certification solutions for our customers' operations and supply chains. Intertek Total Quality Assurance expertise, delivered consistently with precision, pace and passion, enabling our customers to power ahead safely.

750,000+
Square Feet

The size of the combined testing facilities at San Antonio

100+
Dynamometers

Eddy-current and motoring engine test cells

Engine Performance Development & Emission Testing

Equipment/Capabilities

- 38 certification and high performance engine dynamometer test cells with capability up to 3000 HP
- Transient and steady state testing
- Combustion analysis
- Altitude simulation up to 5000 meters
- Deterioration factor studies
- Certification and product audit testing

Common Standards

- EPA Title 40 CFR 60 Subpart IIII and JIII, 86, 89, 90, 91, 94, 1039, 1036, 1042, 1045, 1048, 1051, 1060, 1065, 1068
- CARB Title 13 Sections 2400-2409, 2410 - 2415, 2420 - 2427, 2430 - 2439, 2440 - 2448, 2470 - 2476 and 2700 - 2710
- ISO 8178



Small engine testing on a chassis dyno

Vehicle-Based Engine Component & Durability Testing

Equipment/Capabilities

- Customized driving routes located throughout the United States
 - Hot and cold weather
 - Humidity, Altitude
 - Corrosive environment

Common Standards

- OEM specifications

Evaporative Emission (SHED) Permeation Testing

Equipment/Capabilities

- Fuel systems and fuel tank testing in 63 ft³ mini-SHEDs and fuel system component testing in 15 ft³ micro-SHEDs
- Onboard refueling and vapor recovery (ORVR)
- Small off road engine (SORE)
- Portable fuel container testing

Common Standards

- SAE J1737, OEM specifications

Fuel and Lubricant Qualification

Equipment/Capabilities

- 72 dedicated standard lubricant engine dynamometer test stands used to qualify fuels, passenger car and heavy duty truck engine lubricants and automatic transmission fluids

Common Standards

- ASTM Standards: D 1491, D 5302, D5704, D 5966, D 5967, D 6121, D 6593, D 6709, D 6750, D 6837, D 6891, D 6894, D 6984, D 6987, D 7038, D 7156, D 7320, D 7422, D7452, D 7468, D 7484, D 7549, D 7589

Vehicle Fuel System Testing

Equipment/Capabilities

- Testing protocols for wide variety of fuel components including valves, hoses, connectors, fittings, sending units, caps, plugs, tanks and filler necks.
- Live fuel testing, slosh and rollover evaluation, pressure and vacuum (P/V) testing, fuel fill, loss, spitback, maximum fill, residual, fill quality and grade fill evaluations

Common Standards

- SAE J1737, SAE J30, CEC F 05 93, CEC F 20 98, CEC F 23 01, CEC TDG-098

Analytical Chemical Analysis

Equipment/Capabilities

- Laboratory capable of performing 450 independent chemical analysis tests:
 - GC-MS, GC, ICP-OES, WDXRF, EDXRF, FTIR, Viscosity, Titration, Oxidation, 4-Ball Wear, KRL Shear, KO Shear, N-Chemiluminescence, Elemental Composition, TGA, DSC, PDSC, ICCOMMON

Common Standards

- Specific standards relevant to: EPA, CARB, AST

Field Evaluation Services

Equipment/Capabilities

- Services include program management of vehicle fleets with testing emphasis on test design, vehicle fluids analysis, engine blueprinting, data management and test reporting

Electric Motor Testing

Equipment/Capabilities

- 22 AC regenerative dynamometers
- Maximum torque: 2700 Nm, Maximum speed: 10,000 RPM
- Testing Power:
 - Single Phase: 80 - 240 VAC, 60 Hz
 - Three Phase: 120 - 570 VAC, 230 - 240 VAC, 460 - 480 VAC, 50/60 Hz
 - Three Phase VFD: 8 - 300 Hz
 - DC Power: 8 - 420 VDC, -640 - +530 ADC, -170 - +125 kW
 - DC Power: 0 - 80 VDC, 0 - 313 ADC, 25 kW
- Thermally controlled test cells
- Environmental chamber (-50 - 160 DegC)

Common Standards

- IEEE Standards 112, 114
CAN/CSA C390, C747/IEC 60034

Volatile Organic Compounds (VOC)

Equipment/Capabilities

- Automotive, Chemical
- GCMS, HSGCMS, TDGCMS, HPLC, Chamber and micro chamber

FOR MORE INFORMATION



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