

## About KS Kolbenschmidt Engine Test Lab

Searching for a reliable and affordable engine testing facility?

Look no further.

Since 1984, our facility has been acknowledged as a top leader in automotive technology and testing in North America.

Not only do our testing services reach the highest level of proficiency and efficiency, they are enhanced by being ISO/IEC 17025 certified resulting in consistent quality results.

Our state-of-the-art Engine Testing Lab is staffed with experienced engineers and equipped with leading edge technologies that are designed to be customizable to meet your needs at an affordable price.

## A Rigorous Protocol from Start to Finish

Equipped with advanced technological equipment, as well as the highest level of commitment to maintaining the cutting edge in our testing abilities, our engineers follow strict protocols in all testing procedures.

Customer involvement and inquiry is important to us. We maintain contact with our clients throughout the testing process while ensuring confidentiality.

Clients receive their test results quickly, economically and with the highest standards of security, accuracy and reliability.

KS Kolbenschmidt has designed its Engine Testing Lab to be one of the most flexible testing facilities available today. This approach reduces downtime during engine and test changes, which in turn reduces overall testing costs.

## Trusted Expertise

- ISO/IEC 17025 accredited  
ISO/TS 16949 certified
- Extensive durability testing around the clock
- Rapid results you can trust
- Ensured security and confidentiality

## Major Equipment and Capabilities

- **Dyno** – up to 10,000 RPM, 1200 HP and 6500 ft-lbf
- **Fuel** – diesel, gasoline, E85 and research – flow measurement up to 400 lbm/h
- **Pressures and Temperatures** – up to 48 thermocouples and 32 pressures (expandable upon request)
- **Equipment** – oil consumption, NVH, flow-meters, smoke meters, heat exchangers, chiller, turbo isolation and cylinder pressure

## Engine Test Lab Responsibilities

- To our Customers – Protection of Property, Cost, Services
- To our Data – Reliable, Repeatable, Accredited
- To our Environment – Waste Elimination, Recycling
- To our Staff – Training, Certifications, Education

How can the KS Kolbenschmidt Engine Testing Lab afford to still be low-cost with all the services we offer? It's simple.

We specifically serve our niche market and have maintained that focus. In doing so, we have kept a respected reputation for being reliable and delivering accurate and rapid results.

## Specialized Testing

We offer a wide range of services for gasoline and diesel engines as well as components that are customized to each client's needs while being designed to be kept confidential.

- **Durability Testing**
  - Including many types of transient and steady-state testing
- **Noise Evaluation (NVH)**
  - Sound quality
  - Noise identification and elimination
- **Real-time Telemetry**
  - Including several different methods that can be tailored to suit virtually any temperature measurement need – microwave telemetry, templog and combustion analysis
- **Oil Consumption**
  - Advanced drain and weigh, mass based constant weigh and sulfur trace
- **Thermal Testing**
  - Cold start, elevated temps and thermal cycling

