

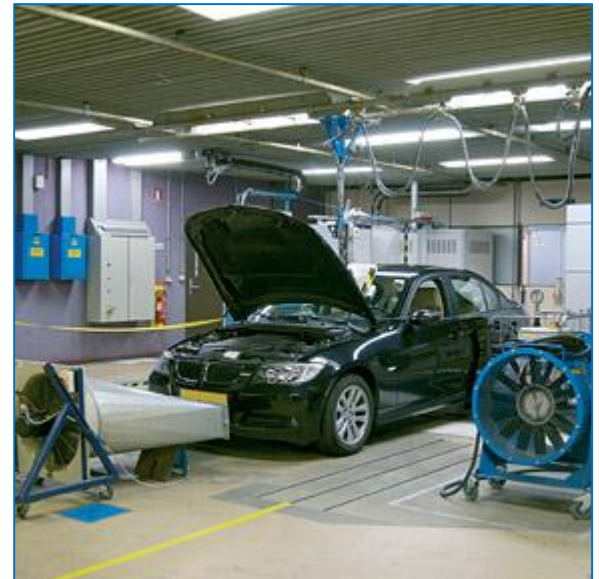
Delphi Customer Technology Centre Luxembourg Gasoline Vehicle Emissions Test Laboratory

The Gasoline Vehicle Emissions Test Laboratory at the Delphi Customer Technology Centre Luxembourg provides the following services:

- Exhaust management systems development
- Engine management systems development
- Component development

All current regulatory test cycles are available, in addition to customized test cycles.

Services at the Delphi Customer Technology Centre Luxembourg are performed by a highly trained and experienced staff that understands the challenges facing manufacturers today. The services are conducted according to industry standards, and are designed to meet individual customer schedules and enable competitive costs.



**Gasoline Vehicle Emissions
Testing at Delphi Customer**

▶ Operational Parameters

- Temperature and humidity control
- Test and soak area
- Chassis dynamometer AVL Single roll 48 inch:
 - Inertia simulation: from 454 kg to 5,400 kg
 - Maximum vehicle speed: 200 km/h
 - Maximum power: 190 kW
- Exhaust emissions measurement Euro 5 level:
 - Engine-out emissions with AVL analyzer and mini-diluter system: CO, CO₂, HC, NO_x, and O₂
 - Tailpipe emissions with AVL analyzer and mini-diluter system: CO, CO₂, HC and NO_x
 - Bag emissions with Horiba MEXA 7400LE analyzer: CO, CO₂, HC, CH₄ and NO_x
 - Constant Volume Sampler Horiba CVS 7200S: flow up to 22 m³/min
 - Particulates measurement DIG vehicle:
 - Real time AVL Micro Soot Sensor 483
 - Mass measurement with Horiba PMU 7000 system according to legislation
 - Data acquisition system Horiba CDTCS:
 - Sampling rate: 10 Hz
 - Results file in 1 Hz, 5 Hz, or 10 Hz

▶ The Delphi Advantage

Delphi's Customer Technology Centre Luxembourg is conveniently located near European customers in the design, development, testing and validation of their products. It is certified to ISO/TS 16949 Standard for Supplier Quality Management Systems. It is part of Delphi's network of state-of-the-art technical centers around the world.

Delphi is a leading global supplier of a broad range of technologies with manufacturing facilities located in more than 30 countries. Delphi's products are engineered to meet the rigorous standards of the automotive industry, but Delphi technologies are also used in many other industries. We leverage a rich heritage and extensive technical knowledge to offer customers an array of innovative, cost competitive solutions.

▶ **Contact Information**

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