

# Engine & Emissions Test

---

The **engine and vehicle testing** of new products is the endpoint of the process of verifying performance.

## Engine Room

It consists of twenty highly automated test cells that allow the determination of performance characteristics of fuels, lubricants and additives for lubricants using standard tests ACEA engine, accelerated screening tests, determinations of polluting exhaust emissions and testing of the exhaust after-treatment system.

## Emission Room

The emission laboratory has four rooms equipped with a chassis dynamometer to reproduce the operating conditions of the vehicle on the road, equipped with a system of sampling and emission measurement.

One of the four rooms is air conditioned for testing under extreme conditions of temperature (from -35 to + 40 ° C) and is equipped with a chassis dynamometer test for heavy vehicles.

The laboratory has instruments for the characterization of particulate matter (number and size of particles).

It allows the characterization of the emissivity profile of the products being tested and their evaluation in terms of performance (power and acceleration to the wheel of the vehicle).

