

Consumption calculation of vehicles using OBD data

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Abstract

The European type approval procedure, based on a fixed driving cycle for all vehicles, is not representative of their real on-road usage: the driving style and its influence on consumption and emissions cannot be neglected and their real-world environmental impact is not simple to measure.

The objective of this work is to develop a methodology to calculate in real-time the energy and environmental impact of spark ignition and diesel vehicles.

An on-board instrumentation capable to communicate with the electronic system of the vehicle (OBD/CAN) have been developed to collect all the sensor data available (rpm, vehicle speed, engine load, lambda sensor voltage, catalyst temperature, intake airflow, pressure and temperature etc.) and use them as input for power and consumption models.

The models have been applied on several vehicles and validated on a dynamometer chassis running NEDC and ARTEMIS cycles. Consumption has been measured with the CVS and with a portable emission analyzer (HORIBA OBS-1300).

A calibration procedure has been also developed in which 3 tests on a dynamometer chassis are needed: the maximum power curve, the curve at idle and a curve at fixed rpm varying the engine load. For spark ignition engines, an additional test should be needed to calibrate a coefficient that takes into account of the enrichment during accelerator pedal gradients, but this coefficient is not much variable for different vehicles (~10).

All the vehicles show a difference between measurements and models never greater than 4% so this can be an accurate methodology to calculate the power and consumption of vehicles during their real use.

Keywords: Instantaneous Vehicle Consumption, Engine Power, OBD, On-Board Data Collection.

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web a lot of adventures to live join tintin in a series of action packed puzzles as he tries to solve an international drug trafficking case by exploring the orient but also an ancient temple a desert the depths of a lush jungle and other magnificent but challenging locations

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web cigars of the pharaoh is the fourth adventure in the series a video game filled with adventures to live join tintin in action packed and thought provoking stages as he tries to solve an international drug trafficking case by exploring the east a tomb a stretch of desert the depths of a lush jungle or other places fraught with pitfalls

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web in cigars of the pharaoh 1934 tintin finds himself entangled in a drug trafficking ring that will take him all the way to india in the meantime he meets thomson and thompson two clumsy policemen whose role will progressively become more important throughout the

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web cigars of the pharaoh french les cigares du pharaon originally published as tintin in the orient is the fourth installment of the adventures of tintin series written by hergé in the 1930 s on several factors this is one of the most important books as it

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web cigars of the pharaoh part 1 directed by stéphane bernasconi with colin o meara thierry wermuth christian pelissier henri labussière while on vacation in egypt tintin is accused of drug smuggling and later becomes the target of a secret society