

## RDE TESTS BY "EMISSION ANALYTICS"

### 1. CONTEXT

Emission Analytics is a company that intends to propose a simplified methodology based on European RDE regulation (EU 2018/1832) to easily gather and publish data on vehicles off-cycle emissions, and to compare vehicles under these conditions.

### 2. RDE REGULATION

Many stakeholders have spent years to develop a robust regulation for off-cycle emission measurement. This regulation now exists and covers a large amount of external conditions (temperature, altitude), road profiles (speeds, climbs) and driver behaviors (smooth, aggressive).

The results of all certification tests are published and free-of-charge publicly available.

From end of 2019, the first vehicles will be RDE-measured for the In-Service Conformity requirements, and the results will be gathered in an Electronic Platform managed by the European Commission.

### 3. EMISSION ANALYTICS APPROACH

Starting from the EU regulation, Emission Analytics have developed their own test method, which would allow comparison of real-world emissions data of vehicles.

### 4. PFA POSITION

The Emission Analytics approach shall be rejected, because:

- RDE tests must represent a large amount of conditions and cannot be resumed to a single test.
- An RDE test gives only a snapshot of the performance of the vehicle in one set of conditions (the conditions of the day of the test).
- RDE test is not a reproducible test but a test in random conditions: traffic, road profile, weather, driving behavior .... All RDE tests are different and cannot be compared among each other.
- RDE tests cannot be compared to laboratory tests, where all the conditions are reproducible (driving cycle, mass, ...)
- The official robust RDE regulation allows the public to know real emission vehicle performances.
- This EA protocol may lead to misunderstanding with official RDE regulation and can only give a comparison in a short range of conditions.

Note: PFA members and all the manufacturers have quit the EA working group.