Modern diesel technology

Latest type-approval results for the growing fleet of RDE-compliant cars

November 2018
About the RDE test
NEW REAL DRIVING EMISSIONS (RDE) TEST

• The new RDE test ensures that cars deliver low pollutant emissions where it matters
  o Closing gap: lab vs on-road performance

• RDE measures the key pollutants, NOx and particles, emitted by cars on the road
  o Driven over a wide range of conditions using portable emission measuring kits
  o Verifies that legal RDE thresholds for pollutants are not exceeded

• Came into effect on 1 September 2017
RDE-COMPLIANT EURO 6 CARS

• Auto makers have made major investments to deliver significant improvements in NOx emissions from RDE-compliant vehicles

• Latest generation of diesel and petrol cars emit very low pollutant emissions on the road, under new RDE test

• RDE-compliant cars will play a strong role in helping cities move towards compliance with EU air quality targets

• Need to differentiate between old diesel fleet and RDE vehicles
Latest RDE approval results
• Latest industry-wide RDE approvals show very low NOx
  o Both during total RDE trip (city, rural and motorway driving) and urban RDE
  o Urban trip is more challenging than total RDE trip, but data is showing excellent performance (below the Euro 6 NOx limit) in urban environments

• Increasing availability of RDE-compliant Euro 6 diesels
  o February 2018: RDE data for 14 diesel types (ie each type representing a ‘family’ of similar vehicles, so a multitude of models available on the market)
  o October 2018: RDE data for 270 diesel types (x 19 in the space of 8 months!)

• These data are not driven by car manufacturers, results are generated (on the road) by drivers of the approval authorities!
LATEST RDE APPROVAL RESULTS

October 2018: data for 270 RDE-compliant diesel vehicle types

- **Total RDE**
  - NOx total [mg/km]
  - PN total [#/km]

- **Urban RDE**
  - NOx total [mg/km]
  - PN total [#/km]
LATEST RDE APPROVAL RESULTS

October 2018: data for 270 RDE-compliant diesel vehicle types

Today's RDE NOx threshold

ALL 270 types below RDE threshold when tested on the road!
LATEST RDE APPROVAL RESULTS

October 2018: data for 270 RDE-compliant diesel vehicle types

Vast majority of 270 types below 2020 RDE threshold TODAY*!

RDE NOx threshold from January 2020

(*) Meeting 2020 RDE threshold today does not equate to full type approval to RDE step 2, as all RDE step 2 legal requirements are not ready yet.