Alignment of R96
with 2012 Amendment of EU 97/68/EC
NRMM - Directive

Proposal by EC
Inf. GRPE/64/03
Amendment of 97/68/EC

• Stage IV limit values mandatory for type approvals 2013 (Q and R)

• Justification for revision
  – Technical progress
    (also learning from HD V and VI legislation)
  – Harmonization
  – Gaps in current stage IV requirements
Content of Revision

- Complementing provisions for NO\textsubscript{x} control by introducing an operator warning system and gradual reduction of the equipment performance (inducement)
- Adapting test procedure to better reflect real use conditions
- Extension of temperature/pressure and altitude criteria
- Improvement of durability requirements for stage IV engines
- Reporting of CO\textsubscript{2} emissions
- Accounting for crankcase emissions
- Updating information document
- Resolved uncertainty of engine classification: engines are assigned to categories based on maximum engine power
Finally

- Proposal series 04 to amend R96 also includes
  - Correction of 8 mode test according to 2010/26/EU
  - Correction of wrong references in current R96
  - Improvement of engine marking (extra letter distinguishing constant and variable speed engines)