



PN measurement for Diesel

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How it started

2013: First reports of diesel particulate filter tampering were reported:

Request from the Ministry to investigate.

Results by TNO

Conclusion: something is wrong

More research by TNO









NPTI Working Groupe

Who:

- Switzerland (VERT)
- Belgium
- Germany
- UK
- The Netherlands
- TNO / BASt
- NMI/PTB
- Equipment manufacturers
- Environmental organization







The challenge

Possibility to check PN in a PTI environment Suitable equipment for a reasonable price

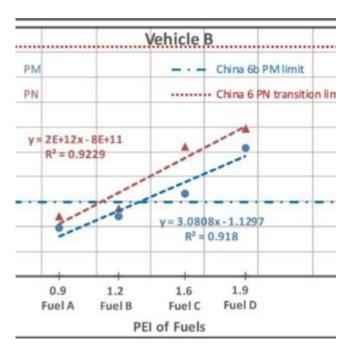
A short test method

Intended for EU-wide use

Setting limit values

Correlation between type approval and PTI TNO / JRC









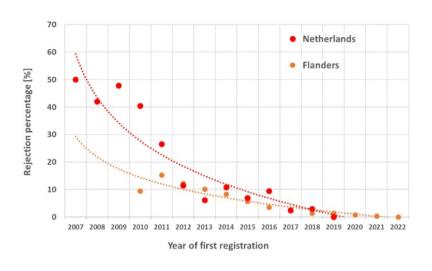
Situation 2023

Introduction of PTI test in:

2022 Belgium

Switzerland, Germany and The Netherlands

First results: Between 6 and 9% of tested vehicles something wrong.







IWG on PTI

Started the discussion in 2019: Proposal for adaptation of the RE.6 in 2022 On agenda GRPE in January 2023



World Forum

for Harmonization of Vehicle Regulations (WP.29)





Amendment of the R.6 specifies:

The specifications of the equipment in outline

The test method

Preconditioning or engine

Measure procedure

Limit values

Fast pass/fail procedure

(the minimum metrological requirements)

(at idle)

(temperature; EGR position; regeneration)

(According PTI priciples)

(test result pass / fail values)

(Quick result)





Developments in the meanwhile:

The JRC and the EU Commission have produced a very extensive draft proposal for a recommendation for the EU Member States.

It describes in detail:

Equipment specifications Method of testing Thresholds







Your comments / reaction please:

Thank you

