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# Developments in testing Diesel Particulate Filters

Hens PEETERS WEEM

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# PTI in EU



- Since May 2018 PTI is more standardized in EU: *Directive EU 2014/45*:
- Standardized inspection methods and results
- Harmonised skills for inspectors
- Harmonised requirements for equipment
- Fields defined on the inspection report



# Emission and 2014/45

- For diesel vehicles, the emission requirements have become more stringent
- EOBD can be used
- Exhaust measuring of smoke



# Developments during the implementation time

Dieselgate: Who? What? How?

**CARTRONICS**  
**WALES**

ECU Programming Specialist

Custom ECU Remapping

DPF Removal

Speedometer Repairs

Key Coding

IMMO Removal

Data Transfer

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**Plus a Lot More!!**

Highly Re

Adblue 7  
High Qual



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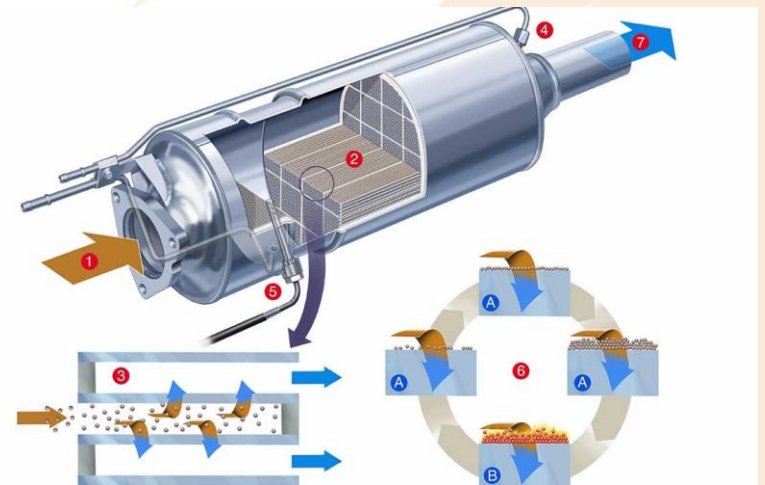
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- Modern Diesels are equipped with a Diesel Particulate Filter that is very efficient.
- Up to 99% efficiency
- It cleans the air when it comes to particulate matter
- We want to preserve these benefits for the environment



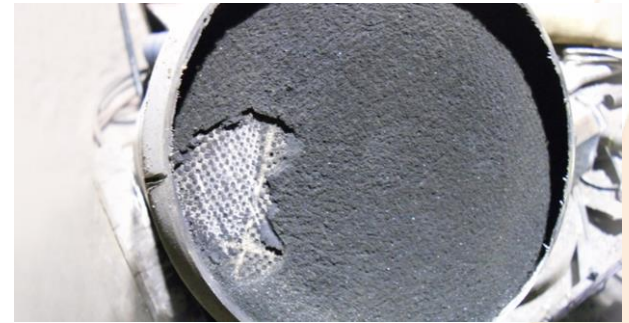
# A new reality

- New emission systems really help to keep the air cleaner, but malfunction and tampering is undoing this profit
- We need to find new methods of testing to act against these practices



# DPF

- Wear
  - Broken
  - Not performing sufficiently
  - Manipulated
  - Removed
- 
- Not possible to check this in the current PTI practice



# NPTI workgroup

- Belgium, Germany, Switzerland, UK and NL
- Manufacturers of particle counters





# Organisations involved in NL



Ministry of Infrastructure and  
Water management



Netherlands Vehicle authority



Netherlands Metrology Institute



National research organisation



# Objectives NPTI group

- 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



# Delivered

- Requirements for test equipment
- Proposal for the test method (parameter)
- Proposal for limit values
- Corrolation between type approval and PTI
  - TNO and JRC



- During the proces the group extended
- More than 10 Manufacturers involved
  - High availability Equipment on short term
  - Reasonable prices expected
  - Testmethod is simple
- All information is freely available and can be used by all EU memberstates



# Prototype particle counters for PTI



# Introduction in PTI

- Targetdate of introduction:
  - Belgium in 2020
  - Germany in 2021
  - Netherlands in 2021

Attention: This can lead to export of vehicles that do not meet the requirements





- Aim of this presentation is
  - to inform all EU Member States about the short term solutions
  - Try to achieve a European approach on a voluntary basis
  - Sharing knowledge
  - Keep working on a sustainable World



- In South and Middle America some countries are measuring PN.
- Emissions was a topic on the CITA conference in Korea last April
- Tampering is a key topic on the meeting for policymakers and non profit organizations in October in London, feel Welcome.





Thank you for your attention



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