Introduction in the Netherlands of the new PTI particle test for DPFs from July 1, 2022

VERT Focus 7 July 2021   Hens Peeters Weem RDW

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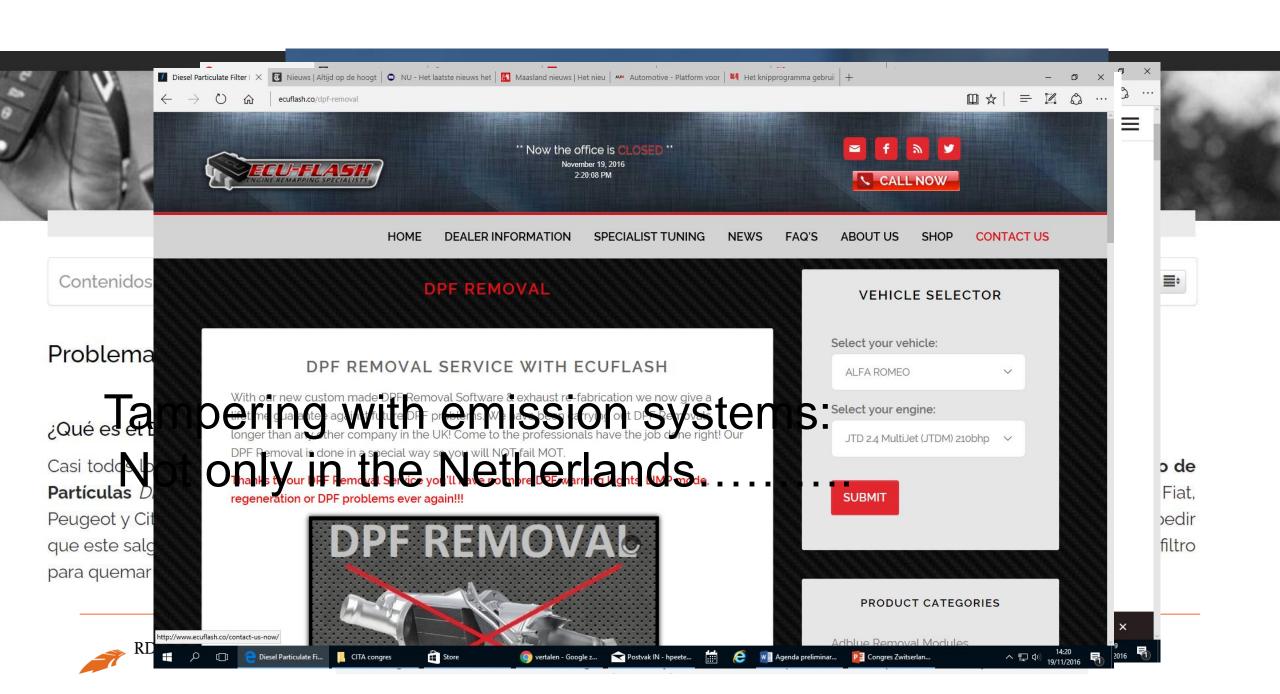# Roadmap to the introduction of the PN-test in PTI in the Netherlands

- 2012 The Problem (research)
- 2015 Motion by the House of Representatives
- 2016 Start of the N-PTI group
- 2020 Entry into force of regulations to enable test
- 2021 Decision for implementation in PTI
- 2022 July 1 Introduction in PTI

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The Problem:

Fraud with emissions systems

- ➢ Removing of DPF

- ➢ Manipulation of in car software (OBD control)

- ➢ Switching off emission systems

- ➢ Chip tuning

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Tampering with emission systems: Not only in the Netherlands……..

Development of new test, equipment, test method and limit values by the N-PTI working group

- Research into the suitability of opacity measurement for diesel vehicles with DPF (TNO Netherlands)

- Correlation between PN and type approval

- Development of PN instrument for PTI

- Development of measuring method

- Proposal for equipment specifications

- Proposal for limit values

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Way in which the new PTI test is performed

➢ Instrument   : According to the specifications of the N-PTI working group

➢ Procedure   : 30 sec. measurement time

➢ Vehicle   : Low idle condition
                   any vehicle conditioning allowed

➢ Limit value   : 1,000,000 particles per cm^3
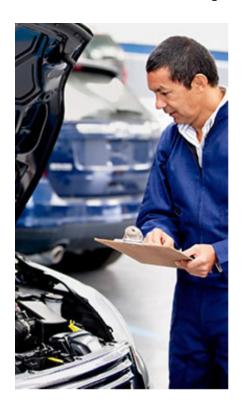
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PTI particle counters for checking DPFs

Current developments

- Belgium and the Netherlands start 01-7- 2022 for passenger cars and light duty vehicles <3500 kg

- Heavy Duty from Euro 6.

- Germany starts 01-01-2023

- There are several countries worldwide that are researching particle measurements

- Manufacturers expect a global introduction.

- Future: petrol cars?

- Marine engines, stationary engines, agricultural machinery.

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Developments Europe and UNECE

EU

➢ Amend Directive (long lead time)

➢ Commission is considering a recommendation on the directive

UN/ECE:

➢ IWG on PTI under WP29

➢ Presentation in WP29 next time *(World Forum for Harmonization of Vehicle Regulations (WP.29)*

➢ Proposal to amend Rule 1

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