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

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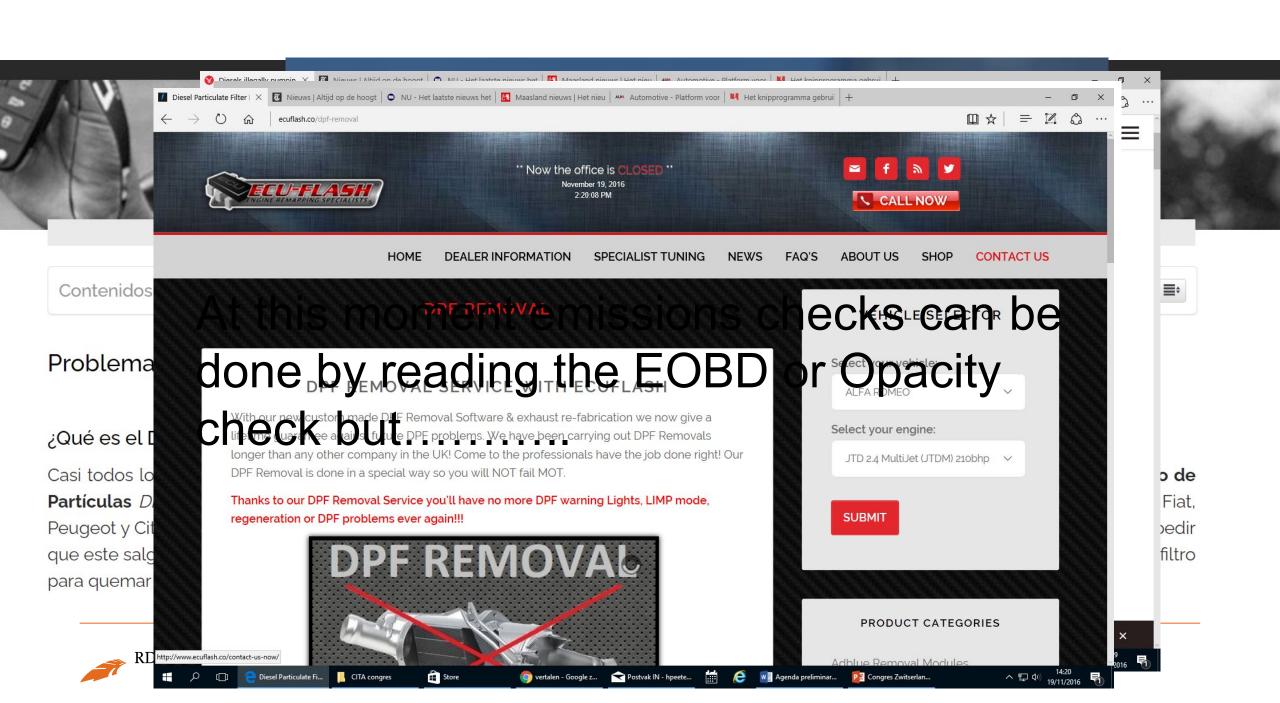


#### Introduction

## Fraud with emissions systems



- Removing of DPF
- Manipulation of in car software (OBD control)
- Switching off emission systems
- Chip tuning



## 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 PM
- Development of PN instrument for PTI
- Development of measuring method
- Proposal for equipment specifications
- Proposal for limit values

### Way in which the new PTI test is performed



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

> Procedure : 15 sec. measurement time

➤ Vehicle : Low idle condition

any vehicle conditioning allowed

➤ Limit value : 1,000,000 particles per cm<sup>3</sup>



## PTI particle counters for checking DPFs



















#### **Current developments**



- ➤ Belgium and the Netherlands start 01-7- 2022
- ➤ Germany starts 01-01-2023
- ➤ There are several countries worldwide that are researching particle measurements
- ➤ Manufacturers expect a global introduction

#### **Developments Europe**



#### What is the opinion of GRPE?

#### EU

- Amend Directive (long lead time)
- Commission is considering a recommendation on the directive

#### **UN/ECE:**

- ➤ Include in the '97 agreement?
- >Amend Rule 1
- > or
  - > Extent Resolution 6