



Roadworthiness Package – new rules on emission testing

revision of Directives 2014/45/EU and 2014/47/EU

VERT Focus Day on NPTI, 20 March 2026

Outline

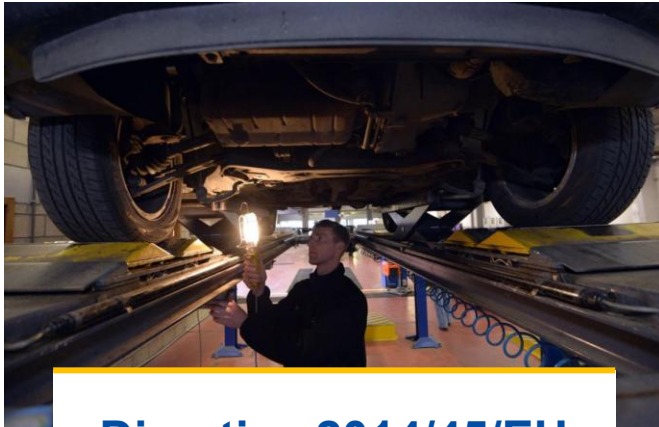
EU legislative framework, revision process

New provisions on emission testing

- PN counting
- NO_x measurement
- Remote sensing

Next steps, questions

EU legislative framework: “Roadworthiness Package”



Directive 2014/45/EU

Periodic roadworthiness tests for motor vehicles and their trailers
(“PTI Directive”)



Directive 2014/46/EU

amending Directive 1999/37/EC

Registration documents for vehicles



Directive 2014/47/EU

Technical roadside inspection of the roadworthiness of commercial vehicles circulating in the Union
(“RSI Directive”)

Commission Recommendation 2023/688 on particle number measurement for the periodic technical inspection of vehicles equipped with compression ignition engines

Process of revision

COM proposals: 24 April 2025

- Amending Directives 2014/45/EU and 2014/47/EU
- Repeal and preplacement of Directive 1999/37/EC

Discussions in **Council** (Land transport working group): **completed**

- General approach adopted on 4 December under DK Presidency

EP: reports presented in January (TRAN), final position expected by end April

- EPP: Directives 2014/45/EU and 2014/47/EU
- S&D: Directive 1999/37/EC

Periodic technical inspections – Directive 2014/45/EU

Recital 15 – Council general approach:

- *“While road transport contributes to significant shares of harmful air pollutant emissions in particular NO_x and fine particles, the current testing methods for exhaust emissions are not adapted to more recent vehicles and technologies. [Commission Recommendation \(EU\) 2023/688](#) was a **first step in harmonising particle number measurement** during roadworthiness testing. In the interests of public health, environmental protection and fair competition, the relevant items to be tested during periodic roadworthiness tests and roadside inspections set out in the annexes to Directives 2014/45/EU and 2014/47/EU should now include particle number measurement and the measurement of NO_x.”*

Periodic technical inspections – Directive 2014/45/EU



Contents and methods of testing (Annex I, item 8.2)

- **PN measurement** for Euro 5b and Euro VI **diesel** and newer
 - Opacity kept for older vehicle; option for MSs to apply PN testing for vehicles with DPF
 - Vehicle conditioning, measuring instrument preparation, and test procedure as in COM Recommendation 2023/688 (at least 60 °C, 15 sec stabilisation, 15 sec measurement)
 - Pass/fail limit: 250.000/cm³ (may be up to 1 million for older vehicles)
- Implementing/delegated acts to further specify PN test method and limit for **petrol**

Periodic technical inspections – Directive 2014/45/EU

NOX-testing

for diesel

- COM proposal: from Euro 6d-temp and Euro VI
- Council GA: specify scope in implementing act
- EP: tbd...
- Only visual and OBD reading under -10 °C
- Conditioning: 5-min drive or equivalent (COM), specify later (Council)
- Not during DPF regeneration
- Technical requirements of instrumentation to be specified

- Test procedure compatible with PN test
- Pass/fail limit: 40 ppm or OBD indicating malfunction

For petrol

- Implementing/delegated acts to specify NOx test method and limit for **petrol**

Roadside inspections – Directive 2014/47/EU (RSI)



Scope of vehicles to be checked

- Include also **light commercial vehicles** (vans)

Contents and methods of testing (Annex I, item 8.2)

- **PN and NOx-testing:** as in PTI, but no requirement to further specify scope and conditioning, only instrument requirements for NOx.

New in COM proposal:

- Emission and noise measurement by **remote sensing**, to identify possible high-emitters (pre-screening of the fleet, **any vehicle category**)
 - Option to use plume chasing
 - MSs to set limits for high-emitters
 - Verify emissions at the roadside or in an inspection centre

Council and Rapporteur of European Parliament prefer optional provision

What's next?

- EP to adopt its position in April?
- Trilogues expected under CY and IE Presidency
- Publication of new rules, entry into force (2027?)
- Transposition into national legislation: 2-3 years?
- New rules start to apply in ... 2030?
- Questions?

Thank you



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