Roadworthiness testing and vehicle registration documents

12th Technical Committee on Road Safety

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Outline

EU legislative framework, objectives

Policy context, new challenges, revision

Some details on concrete provisions

• Scope of vehicles, frequency of testing
• Content and methods of inspection
• Roadworthiness certificate
• Harmonisation and exchange of vehicle data

Questions
EU legislative framework: “Roadworthiness Package”

**Directive 2014/45/EU**
Periodic roadworthiness tests for motor vehicles and their trailers ("PTI Directive")
+ Implementing Regulation (EU) 2019/621 on the technical information necessary for roadworthiness testing

**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")
Objectives of existing legislation

Main objectives

- Keep vehicles **safe throughout** their **useful life** – remove unsafe vehicles from the road
- Identify and remove gross polluters
- Prevent manipulations / tampering
- Contribute to free movement

Practical considerations

- Need relatively simple, inexpensive testing (proportionality)
- Cover all relevant items (safety, emissions)
- Different organisation of PTI/RSI,
- Different set of data registered in Member States
Policy context, new challenges

• Technological progress, stricter emission and safety standards require inspection to be adapted

• Relevant actions announced in Mobility Strategy:
  - Improve emission testing in roadworthiness checks
  - Assess the need for a proposal to require efficient exchange of odometer readings across the EU

Challenges

• General Safety Regulation – electronic safety & driver assistance systems becoming mandatory

• Euro 6 & 7: more stringent emission requirements

• Accessibility to RW-relevant vehicle identification & status data

• Tampering & fraud on vehicles
Planned revision of the package

- Announced in Sustainable and Safe Mobility Strategy (2020)
- To ensure lifetime compliance of vehicles with emission and safety standards
- COM proposal planned for 2023
  - Public consultation done (July-September 2022)
  - Evaluation of current rules ongoing, targeted consultation to start soon
  - Regular discussion with Expert Group on Roadworthiness
  - Impact assessment in 2023
Specific provisions

Periodic and roadside inspections, vehicle registration
Current scope

- Cars, vans (4-2-2)
- Ambulances, taxis, like buses, lorries and large trailers (O3, O4) – yearly
- Tractors used for haulage (T-cat., 4-2-2)
- L-cat. (motorcycles, …) >125 cm³ since 2022, option to apply alternative measures

Possible changes*

- Adjust frequency based on age/mileage
- Include smaller trailers, mopeds, all tractors > 40km/h?
- Review opt out for L-cat.

*disclaimer: preliminary ideas to be assessed and agreed
Periodic Technical Inspections (PTI)

Main requirements

- MS of registration to carry out PTI – authority or authorised private body
- Assess deficiencies according to Annex I (minor, major, dangerous)
- Issue RW certificate (Annex II), to be recognised by other MSs
- Follow-up deficiencies, provide proof of test

- Requirements on testing centres, facilities, equipment, calibration (Annex III)
- Independent inspectors’ competence, training (Annex IV)
- Competent and impartial supervising bodies (Annex V)
Periodic Technical Inspections (PTI)

Content of the test

(0) Identification of the vehicle;
(1) Braking equipment;
(2) Steering;
(3) Visibility;
(4) Lighting equipment and parts of the electrical system;
(5) Axles, wheels, tyres, suspension;
(6) Chassis and chassis attachments;
(7) Other equipment;
(8) Nuisance (i.e. air & noise pollution);
(9) Supplementary tests for buses, coaches
To be recognised by other Member States, if valid,
- for the purpose of re-registering
- if change of ownership

May be electronic, but has to be available to the person presenting the vehicle for testing (printout)

Include **odometer reading**, next to basic vehicle data and result of the test

Results to be made available electronically to the authority

Sample source: [https://road-safety.transport.ec.europa.eu/ireland-rwc-m1-post-may_en](https://road-safety.transport.ec.europa.eu/ireland-rwc-m1-post-may_en)
Roadside inspections (RSI)

- **Current scope**: heavy-duty vehicles
- **Main requirements**
  - 5% of fleet to be tested, avoid discrimination based on nationality
  - Based on risk rating (Annex I) or randomly
  - Independence, competence and training of inspectors (as in PTI)
  - Initial (mainly visual) and detailed inspection, if needed
  - Inspection report

**Tests, procedures**

- Items as in PTI, similar methods
- Cargo securing (optional)
- Exchange of information between contact points (use of ERRU)
- Cooperation in concerted RSI, along with checking compliance with driving and rest time rules
- Reporting to COM
Possible new provisions*

**PTI**

- Adapt scope and intervals
- Recognise if PTI abroad?
- Electronic RW certificate
- Adapt PTI to electric/hybrid vehicles
- Updates re GSR, Euro 7
- PN-, NO\textsubscript{X}-testing
- ePTI? (ISO 20730 series) – need access to vehicle data

**RSI**

- Adapt scope (light vehicles, L-cat.?)
- More harmonised minimum requirements, incl. on cargo securing
- PN-counting for HDV and LDV?
- NO\textsubscript{X}-testing by remote sensing equipment, plume chasing
- Electronic exchange of RSI-data

*disclaimer: preliminary ideas to be assessed and agreed*
Vehicle registration documents

- Mandatory and optional elements on registration certificate (Annex I) – Ereg works on further harmonisation
- (most) electronically registered, as well as possible suspension
- Mutual assistance among MSs required but not the exchange of data
Harmonisation and exchange of registry data

Possible changes*

• Electronic registration and exchange of additional data, e.g. odometer (history)
• Major accidents/incidents
• PTI status
• Reason for deregistration (end-of life, export, theft, …)
• Digitalisation of registration certificate

*Disclaimer: preliminary ideas to be assessed and agreed
Thank you

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