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Item 5 (b) of the provisional agenda

Tyres: Tyre Abrasion

Proposal for Supplement 4 to the 04 series of amendments to UN Regulation No. 117

Submitted by the Task Force Tyre Abrasion*

The text reproduced below was prepared by the Task Force Tyre Abrasion (TF TA). The modifications to the existing text of the UN Regulation are marked in bold for new or strikethrough for deleted characters.

* In accordance with the programme of work of the Inland Transport Committee for 2025 as outlined in proposed programme budget for 2025 (A/79/6 (Sect.20), table 20.6), the World Forum will develop, harmonize and update UN Regulations in order to enhance the performance of vehicles. The present document is submitted in conformity with that mandate.



I. Proposal

Table of contents, Annexes, amend to read:

"...

10	Procedure for determining the abrasion performance of tyres of class C1
	Appendix 1 — Test method (a) Accelerations calculation
	Appendix 2 — Test method (a) Test report example for the vehicle method
	Appendix 3 — Test method (b) Input of test cycle
	Appendix 4 — Test method (b) Test equipment tolerances
	Appendix 5 — Test method (b) Replacement of sandpaper surface
	Appendix 6 — Test method (b) Example of a test report for indoor drum test method
	"

Paragraph 1.1., amend to read:

"1.1. This Regulation applies to new pneumatic tyres * of classes C1, C2 and C3 in new state with regard to their sound ~~emissions~~, emissions and rolling resistance and in new and in worn state with regard to adhesion performance on wet surfaces (wet adhesion). ~~It also applies to C1 tyres in new state with regards to their tyre abrasion as defined in paragraph 1.3. of this UN Regulation.~~ It does not, however, apply to:"

Paragraph 1.3., delete:

~~"1.3. In the case of class C1 tyres, except ice grip tyres and tyres having a nominal rim diameter code ≤ 13 , approval shall be supplemented with information on the abrasion level according to paragraphs 5.7 to 5.9 of this Regulation."~~

Paragraph 2.18., delete numerals (i) and (j):

"2.18. ...
 (i) ~~F3676 — 24 for the size 225/45R17 and referred to as "SRTT17S";~~
 (j) ~~F3675 — 24 for the size 225/45R17 and referred to as "SRTT17W".~~"

Paragraph 2.21., delete:

~~"2.21. Abrasion performance — Specific definitions
 2.21.1. "Abrasion rate" means the ratio of mass of material lost from the tyre due to the abrasion process per distance travelled, and expressed in mg/km.
 2.21.2. "Abrasion level" means the abrasion rate normalized to the load on the tyre, and expressed in mg/km/t.
 2.21.3. "Abrasion index" (AICT) of candidate tyre means the dimensionless unit for expressing the tyre abrasion level of a tyre relative to that of the applicable Standardized Reference Test Tyre (SRTT)."~~

Paragraph 3.1.1.1., delete:

~~"3.1.1.1. In case of class C1 tyres, the information on the abrasion level, if reported, shall be communicated in the format according to the test report sheet of Appendix 2 or Appendix 6 of Annex 10;"~~

Paragraph 3.2.1., amend to read:

"3.2.1. Details of the major features, with respect to the effects on the performance (i.e. rolling sound emission level, adhesion on wet surfaces, rolling resistance, snow performance, **and** ice performance, ~~and tyre abrasion~~) of the tyres, including the tread pattern, included in the designated range of tyre sizes. This

may be by means of descriptions supplemented by technical data, drawings, photographs or Computer Tomography (CT) scans, and must be sufficient to allow the Type Approval Authority or Technical Service to determine whether any subsequent changes to the major features will adversely affect the tyre performance. The effects of changes to minor details of tyre construction on tyre performances will be evident and determined during checks on conformity of production;"

Paragraphs 5.7. to 5.10., delete:

- ~~"5.7. — Until 6 July 2026 and upon request of the applicant, during the approval of new type of class C1 tyres, it will be possible to determine the tyre abrasion level of one tyre of the tyre type in accordance with Annex 10 to this Regulation. The test results shall be communicated to the Type Approval Authority in the format according to the test report sheet of Appendix 2 or Appendix 6 of Annex 10.~~
- ~~5.8. — Between 7 July 2026 and 31 December 2026 and upon request of the applicant, during the approval of new type of class C1 tyres, it will be possible to determine the tyre abrasion level of the tyre type determined in accordance with Annex 10 to this Regulation. The test results shall be communicated to the Type Approval Authority in the format according to the test report sheet of Appendix 2 or Appendix 6 of Annex 10.~~
- ~~5.9. — Starting from 1 January 2027, the manufacturer, during the approval of new type of class C1 tyres, shall communicate the tyre abrasion level of the tyre type determined in accordance with Annex 10 to this Regulation. The test results shall be communicated to the Type Approval Authority in the format according to the test report sheet of Appendix 2 or Appendix 6 of Annex 10.~~
- ~~5.10. — Abrasion tests are not required for extensions of existing type approvals according to this Regulation first granted before 1 January 2027."~~

Annex 1, items 8.6. and 8.6.1., delete:

~~"8.6. — Abrasion level available in the case of class C1 tyres (Yes/No)²~~

~~8.6.1. Use of the vehicle on public open roads method² or the indoor drum method²"~~

Annex 10, delete.

II. Justification

It is proposed to move all provisions related to tyre abrasion into a separate UN Regulation (see ECE/TRANS/WP.29/GRBP/2025/27).