



Economic and Social Council

Distr.: General
3 April 2023

Original: English

Economic Commission for Europe

Inland Transport Committee

World Forum for Harmonization of Vehicle Regulations

190th session

Geneva, 20-22 June 2023

Item 4.9.5 of the provisional agenda

1958 Agreement:

**Consideration of draft amendments to existing UN Regulations
submitted by GRBP**

Proposal for Supplement 12 to UN Regulation No. 109 (Retreaded tyres for commercial vehicles and their trailers)

Submitted by the Working Party on Noise and Tyres*

The text reproduced below was adopted by the Working Party on Noise and Tyres (GRBP) at its seventy-seventh session (ECE/TRANS/WP.29/GRBP/75, paras. 17 and 18). It is based on ECE/TRANS/WP.29/GRBP/2023/4, as amended by para. 17 of the report, and GRBP-77-22. It is submitted to the World Forum for Harmonization of Vehicle Regulations (WP.29) and to the Administrative Committee (AC.1) for consideration at their June 2023 sessions.

* In accordance with the programme of work of the Inland Transport Committee for 2023 as outlined in proposed programme budget for 2023 (A/77/6 (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.



Paragraph 3.5.2., amend to read:

"3.5.2. In the case that the date of retreading as defined in paragraph 3.2.9. is not moulded, it shall be applied not later than 5 working days after the completion of the retreading process at the facility concerned."

Annex 10,

Paragraph 1.3., amend to read:

"1.3. "Traction test" means a series of a specified number of spin-traction test runs according to ASTM standard F1805-20 of the same tyre repeated within a short time frame."

Paragraph 2., amend to read:

"2. The test procedure of ASTM standard F1805-20 shall be used to assess snow performance through the traction performance index (TPI) on medium pack snow (the snow compaction index measured with CTI penetrometer^{1/} shall be between 70 and 80)."

Paragraph 2.1., amend to read:

"2.1. The test course surface shall be composed of a medium pack snow surface, as characterized in table A2.1 of ASTM standard F1805-20."

Paragraph 2.2., amend to read:

"2.2. The tyre load for testing shall be as per option 2 in paragraph 11.9.2 of ASTM standard F1805-20. When the SRTT16 is used as reference tyre, it shall be tested with a load of 531 kg at an inflation pressure of 240 kPa (cold)."

Insert a new paragraph 2.3., to read:

"2.3. The snow grip index (SG) of a candidate tyre T_n shall be computed as follows:

$$SG(T_n) = f \cdot \frac{TPI}{100}$$

where $f = 0.987$ when using SRTT16 as reference tyre per ASTM F1805-20, and TPI denotes the traction performance index as defined in ASTM F1805-20."