

22 February 2024

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## Agreement

### **Concerning the Adoption of Harmonized Technical United Nations Regulations for Wheeled Vehicles, Equipment and Parts which can be Fitted and/or be Used on Wheeled Vehicles and the Conditions for Reciprocal Recognition of Approvals Granted on the Basis of these United Nations Regulations\***

(Revision 3, including the amendments which entered into force on 14 September 2017)

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#### **Addendum 108 – UN Regulation No. 109**

#### **Revision 1 - Amendment 6**

Supplement 12 to the original version of the Regulation – Date of entry into force:  
5 January 2024

#### **Uniform provisions concerning the approval for the production of retreaded pneumatic tyres for commercial vehicles and their trailers**

This document is meant purely as documentation tool. The authentic and legal binding text is:  
ECE/TRANS/WP.29/2023/75.



**UNITED NATIONS**

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\* Former titles of the Agreement:

Agreement concerning the Adoption of Uniform Conditions of Approval and Reciprocal Recognition of Approval for Motor Vehicle Equipment and Parts, done at Geneva on 20 March 1958 (original version);  
Agreement concerning the Adoption of Uniform Technical Prescriptions for Wheeled Vehicles, Equipment and Parts which can be Fitted and/or be Used on Wheeled Vehicles and the Conditions for Reciprocal Recognition of Approvals Granted on the Basis of these Prescriptions, done at Geneva on 5 October 1995 (Revision 2).



*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<sup>1/</sup> 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<sub>n</sub> 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."