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## Economic Commission for Europe

### Inland Transport Committee

### World Forum for Harmonization of Vehicle Regulations

#### 178th session

Geneva, 25-28 June 2019

Item 4.9.5 of the provisional agenda

#### 1958 Agreement:

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

## **Proposal for Supplement 10 to the 02 series of amendments to UN Regulation No. 117 (Tyre rolling resistance, rolling noise and wet grip)**

### **Submitted by the Working Party on Noise\***

The text reproduced below was adopted by the Working Party on Noise (GRB) at its sixty-ninth session (ECE/TRANS/WP.29/GRB/67, paras. 19 and 20). It is based on ECE/TRANS/WP.29/GRB/2019/4, ECE/TRANS/WP.29/GRRF/2016/42 and ECE/TRANS/WP.29/GRRF/2017/7. 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 2019 sessions.

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\* In accordance with the programme of work of the Inland Transport Committee for 2018–2019 (ECE/TRANS/274, para. 123 and ECE/TRANS/2018/21/Add.1, Cluster 3.1), 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.

## Supplement 10 to the 02 series of amendments to UN Regulation No. 117 (Tyre rolling resistance, rolling noise and wet grip)

Paragraph 2.1., amend to read:

"2.1. "Type of tyre" means tyres which do not differ in such essential characteristics as:"

Paragraph 5. and its subparagraphs, amend to read:

### **"5. Approval**

5.1. If the representative tyre size of the type of tyre submitted for approval pursuant to this Regulation meets the requirements of paragraphs 6. and 7. below, approval of that type of tyre shall be granted.

5.2. An approval number according to Schedule 4 to the Revision 3 of the 1958 Agreement shall be assigned to the type of tyre approved. The same Contracting Party may not assign the same number to another type of tyre.

5.2.1. Instead of granting the original type approval number pursuant to UN Regulation No. 117, upon the request of the manufacturer, the Type Approval Authority may grant the type approval number, which had been granted before to that type of tyre pursuant to UN Regulations Nos. 30 or 54 with the subsequent extension number.

5.2.2. The communication form mentioned in paragraph 5.3. below shall identify specific performance parameters of UN Regulation No. 117 by the following suffixes:

- S To identify additional conformity to the requirements on tyre rolling sound emissions;
- W To identify additional conformity to the requirements on tyre adhesion on wet surfaces;
- R To identify additional conformity to the requirements on tyre rolling resistance.

Taking into account that two stages are defined for rolling sound and rolling resistance specifications in paragraphs 6.1. and 6.3. below, S and R will be followed either by the suffix "1" for compliance to stage 1 or by the suffix "2" for compliance to stage 2.

5.3. Notice of approval or extension of approval or refusal of approval of a type of tyre pursuant to this Regulation shall be communicated to the Parties to the Agreement, which apply this Regulation by means of a form conforming to the model in Annex 1 to the Regulation.

5.3.1. With reference to paragraph 5.2.1. above, tyre manufacturers are entitled to submit an application for extension of type approval to the requirements of other Regulations relevant to the tyre type. In that case, a copy of the relevant type approval communication(s), as issued by the relevant Type Approval Authority, shall be attached to the application for extension of approval. All applications for extension of approval(s) shall only be granted by the Type Approval Authority which issued the original approval for the tyre.

- 5.3.1.1. When extension of approval is granted to incorporate into the communication form (see Annex 1 to this Regulation) certification(s) of conformity to other Regulations, (all) the specific type approval number(s) and the Regulation itself shall be added to item 9. of Annex 1 "Communication form".
- 5.3.1.2. The suffix(es) mentioned in paragraph 5.2.2. above shall be preceded by the two digits identifying the series of amendments of the prescription on tyre performances for UN Regulation No. 117, e.g. 02S2 to identify the second series of amendments on tyre road rolling sound emissions at stage 2 or 02S1WR1 to identify the second series of amendments on tyre road rolling sound emissions at stage 1, tyre adhesion on wet surfaces and rolling resistance at stage 1 (see paragraph 6.1. below for stage 1 and stage 2 definitions).
- 5.4. In the space referred to in paragraph 4.3. and in accordance with the requirements of paragraph 4.4. above there shall be affixed to every tyre size, conforming to the type of tyre approved under this Regulation, an international approval mark consisting of:
  - 5.4.1. A circle surrounding the letter "E" followed by the distinguishing number of the country which has granted approval<sup>12</sup>; and
  - 5.4.2. The part of the approval number specified in paragraph 3 Section 3 of Schedule 4 to the Revision 3 of the 1958 Agreement, which shall be placed close to the circle prescribed in paragraph 5.4.1. above either above or below the "E" or to the left or right of that letter.
  - 5.4.3. ... "

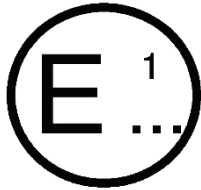
(Footnote 12 remains unchanged).

Annex 1 "Communication", introductory part, amend to read:

## "Annex 1

### Communication

(Maximum format: A4 (210 x 297 mm))



Issued by:      Name of administration:  
 .....  
 .....  
 .....

- Concerning<sup>2</sup>: Approval granted  
 Approval extended  
 Approval refused  
 Approval withdrawn  
 Production definitively discontinued

of a type of tyre with regard to "rolling sound emission level" and/or "adhesion performance on wet surfaces" and/or "rolling resistance" pursuant to UN Regulation No. 117

Approval No<sup>3</sup> .....      Suffix(es)<sup>4</sup> .....

1.      ...

...

- <sup>1</sup> Distinguishing number of the country which has granted/extended/refused/withdrawn approval (see approval provisions in this Regulation).  
<sup>2</sup> Strike out what does not apply.  
<sup>3</sup> According to Schedule 4 to Revision 3 of the 1958 Agreement.  
<sup>4</sup> According to paragraphs 5.2.2. and 5.3.1.2. of this Regulation."

Annex 7, Appendix 2, Part 2, paragraph 5., amend to read:

"5. Test results: mean fully developed decelerations (m/s<sup>2</sup>) / traction coefficient<sup>1</sup>

<i>Run number</i>	<i>Specification</i>	<i>SRTT</i> <i>(1st test)</i>	<i>Candidate</i>	<i>Candidate</i>	<i>SRTT</i> <i>(2nd test)</i>
1					
2					
3					
4					
5					
6					
Mean					
Std-deviation					
CV (%)	< 6 %				
Validation SRTT	(SRTT) ≤ 5 %	X	X	X	
SRTT average			X	X	X
Snow grip index		1.00			X

"

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<sup>1</sup> Strike out what does not apply. "