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**Economic Commission for Europe****Inland Transport Committee****World Forum for Harmonization of Vehicle Regulations****157<sup>th</sup> session**

Geneva, 26-29 June 2012

Item 4.9.3 of the provisional agenda

**1958 Agreement – Consideration of draft amendments  
to existing Regulations submitted by GRRF****Proposal for Supplement 18 to Regulation No. 54 (Pneumatic  
tyres for motor vehicles and their trailers)****Submitted by the Working Party on Brakes and Running Gear\***

The text reproduced below was adopted by the Working Party on Brakes and Running Gear (GRRF) at its seventy-second session clarifying the levels of braking performance that are reasonable in the different positions of the ignition key. It is based on ECE/TRANS/WP.29/GRRF/2011/14 as amended by Annex IV to the report (ECE/TRANS/WP.29/GRRF/72, para. 27). It is submitted to the World Forum for Harmonization of Vehicle Regulations (WP.29) and to the Administrative Committee (AC.1) for consideration.

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\* In accordance with the programme of work of the Inland Transport Committee for 2010–2014 (ECE/TRANS/208, para. 106 and ECE/TRANS/2010/8, programme activity 02.4), the World Forum will develop, harmonize and update Regulations in order to enhance the performance of vehicles. The present document is submitted in conformity with that mandate.

*Paragraph 2.1.3.*, amend to read:

"2.1.3. Category of use (normal tyre, snow tyre, special use tyre);"

*Paragraph 2.2.1.*, amend to read:

"2.2.1. "Normal tyre" means a tyre intended for normal, on-road use;"

*Paragraph 2.2.2.*, amend to read:

"2.2.2. "Snow tyre" means a tyre whose tread pattern, tread compound or structure is primarily designed to achieve in snow conditions a performance better than that of a normal tyre with regard to its ability to initiate or maintain vehicle motion."

*Paragraph 2.2.3.*, amend to read:

"2.2.3. "Special use tyre" means a tyre intended for mixed use both on- and off-road or for other special duty. These tyres are primarily designed to initiate and maintain the vehicle in motion in off-road conditions."

*Insert a new paragraph 2.2.3.1.*, to read:

"2.2.3.1. "Professional off-road tyre" is a special use tyre primarily used for service in severe off-road conditions."

*Insert new paragraphs 2.30. to 2.31.2.*, to read:

"2.30. "Void to fill ratio" means the ratio between the area of voids in a reference surface and the area of this reference surface calculated from the mould drawing.

2.31. "Tyre Class" means one of the following groupings:

2.31.1. *Class C2 tyres:* Tyres identified by a load capacity index in single formation lower or equal to 121 and a speed category symbol higher or equal to "N";

2.31.2. *Class C3 tyres:* Tyres identified by:

(a) A load capacity index in single formation higher or equal to 122;  
or

(b) A load capacity index in single formation lower or equal to 121 and a speed category symbol lower or equal to "M".

*Paragraph 3.1.5.*, amend to read:

"3.1.5. The inscription M+S or M.S or M&S if the tyre is classified in the category of use "snow tyre".

*Paragraph 3.1.9.*, amend to read:

"3.1.9. In the case of tyres which can be regrooved, the symbol "Ω" at least 20 mm in diameter, or the word "REGROOVABLE", moulded into or on to each sidewall;"

*Paragraph 3.1.12.*, amend to read:

"3.1.12. The inscription "MPT" (or alternatively "ML") and /or "POR" if the tyre is classified in the category of use "special".

ET means Extra Tread, ML stands for Mining and Logging, MPT means Multi-Purpose Truck and POR means Professional Off Road; 4/

*Insert new paragraphs 6.3. to 6.3.2. to read:*

- "6.3. Tread pattern of a tyre
- 6.3.1. In order to be classified as a "special use tyre" a tyre shall have a block tread pattern in which the blocks are larger and more widely spaced than for normal tyres and have the following characteristics:
- For C2 tyres: a tread depth  $\geq 11$  mm and void to fill ratio  $\geq 35$  per cent  
 For C3 tyres: a tread depth  $\geq 16$  mm and void to fill ratio  $\geq 35$  per cent
- 6.3.2. In order to be classified as a 'professional off-road tyre', a tyre shall have all of the following characteristics:
- (a) For C2 tyres:
- (i) A tread depth  $\geq 11$  mm;
- (ii) A void-to-fill ratio  $\geq 35$  per cent;
- (iii) A maximum speed rating of  $\leq Q$ .
- (b) For C3 tyres:
- (i) A tread depth  $\geq 16$  mm;
- (ii) A void-to-fill ratio  $\geq 35$  per cent;
- (iii) A maximum speed rating of  $\leq K$ ."

*Annex 1, paragraph 5.2., amend to read:*

"5.2. Category of use: normal/snow/special 2/"

*Annex 1, insert a new paragraph 5.4., to read:*

"5.4. Tyre class: C2 / C3 2/"

*Annex 1, renumber paragraphs 5.4. to 5.5. (former) as 5.5. to 5.6.*

*Annex 3, arrangement of tyre markings, insert a new marking to read:*

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 c \_\_\_\_\_ ET; ML; MPT; POR  
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