

**Economic and Social Council**Distr.: General
12 April 2012

Original: English

Economic Commission for Europe**Inland Transport Committee****World Forum for Harmonization of Vehicle Regulations****157th 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.

* 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 ≥ 11 mm and void to fill ratio ≥ 35 per cent
 For C3 tyres: a tread depth ≥ 16 mm and void to fill ratio ≥ 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 ≥ 11 mm;
- (ii) A void-to-fill ratio ≥ 35 per cent;
- (iii) A maximum speed rating of $\leq Q$.
- (b) For C3 tyres:
- (i) A tread depth ≥ 16 mm;
- (ii) A void-to-fill ratio ≥ 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:

"

\downarrow
 $\overline{\hspace{10em}}$
 c ET; ML; MPT; POR
 \uparrow

....."
