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Consideration of draft amendments to existing UN Regulations submitted by GRBP

Proposal for Supplement 25 to the original series of amendments to UN Regulation No. 54 (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-fifth session (ECE/TRANS/WP.29/GRBP/73, para. 18). It is based on ECE/TRANS/WP.29/GRBP/2022/6 and ECE/TRANS/WP.29/GRBP/2021/13, as amended by informal document GRBP-75-31-Rev.2. 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 2022 sessions.

* In accordance with the programme of work of the Inland Transport Committee for 2022 as outlined in proposed programme budget for 2022 (A/76/6 (Sect.20), para 20.76), 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 2.13.1., amend to read:

- "2.13.1. However, in case of tyres identified by the "tyre to rim fitment configuration" (see paragraph 2.20.5.) symbol "A", it means the area of the tyre which is seating on the rim;"

Paragraph 2.30., amend to read:

- "2.30. "Load-capacity index" means a number which indicates the load the tyre can carry at the speed corresponding to the associated speed category and when operated in conformity with the requirements governing utilization specified by the manufacturer. The list of these indices and their corresponding loads is given in Annex 4;"

Paragraph 2.32., amend to read:

- "2.32. "Table load-capacity variation with speed" means:
The table, in Annex 8, showing as a function of the load-capacity indices and nominal-speed-category symbols the load variations which a tyre can withstand when used at speeds different from that conforming to its nominal-speed-category symbol. The load variations do not apply in the case of the additional service description obtained when the provisions of paragraph 6.2.5. are applied;"

Paragraphs 3.1.5. and 3.1.5.1., amend to read:


- "3.1.5. The service description as defined in paragraph 2.35.;
- 3.1.5.1. One additional service description surrounded by a circle in case the provisions of paragraph 6.2.5. are applied;

Paragraph 3.1.5.2., delete.

Paragraph 3.1.7., amend to read:

- "3.1.7. (omitted)"

Paragraph 3.1.10., amend to read:

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

Paragraph 3.4.1., amend to read:

- "3.4.1. The markings shall be situated in the lower area of the tyre on at least one of its sidewalls, except for the inscriptions mentioned in paragraphs 3.1.1. and 3.1.2.

However, for tyres identified by the "tyre to rim fitment configuration" (see paragraph 2.20.5.) symbol "A", the markings may be placed anywhere on the sidewall of the tyre."

Paragraphs 4.1.5. and 4.1.6., amend to read:

- "4.1.5. The service description;
- 4.1.6. The additional service description in case the provisions of paragraph 6.2.5. are applied;"

Paragraph 6.1.1.2., amend to read:

- "6.1.1.2. Notwithstanding paragraph 6.1.1.1., for the types of tyres whose designation is given in the first column of the tables in Annex 5 to this Regulation, the section width shall be deemed to be that given opposite the tyre designation in those tables.

However, if a measuring rim whose width code differs from the measuring rim width code listed in the table is used, the section width is calculated using the formula from paragraph 6.1.1.1., where

- S1 is the section width in millimetres listed in the table;
A1 is the measuring rim width code from the table multiplied by 25.4;
and
the other quantities are as defined in paragraph 6.1.1.1."

Paragraph 6.1.1.3., amend to read:

- "6.1.1.3. However, for tyres identified by the "tyre to rim fitment configuration" (see paragraph 2.20.5.) symbol "A", K shall be taken to equal 0.6."

Paragraph 6.1.2.3., amend to read:

- "6.1.2.3. However, for tyres identified by the "tyre to rim fitment configuration" (see paragraph 2.20.5.) symbol "A", the outer diameter shall be that specified in the tyre-size designation as shown on the sidewall of the tyre."

Paragraph 6.1.4.3., amend to read:

- "6.1.4.3. However, for tyres identified by the "tyre to rim fitment configuration" (see paragraph 2.20.5.) symbol "A", the overall width of the tyre, in the lower area of the tyre, equals the nominal width of the rim on which the tyre is mounted, as shown by the manufacturer in the descriptive note, increased by 27 mm."

Paragraph 6.1.5.1., amend to read:

- "6.1.5.1. For sizes listed in Annex 5 and for tyres identified by the "tyre to rim fitment configuration" (see paragraph 2.20.5.) symbol "A", the nominal section height H is equal to:
$$H = 0.5 (D - d),$$
rounded to the nearest mm - for references see paragraph 6.1.2.1."

Annex 7, paragraph 3.1.2., amend to read:

- "3.1.2. Tyres marked with load capacity index in single 122 and above and with the additional marking "C", or "LT", referred to in paragraphs 2.20.6. and 3.1.14. of this Regulation."