

Proposal for a new supplement to the 01 series of amendments to UN Regulation No. 142

The text below has been prepared by the experts of Germany in order to align UN Regulation No. 142 with the provisions of UN Regulation No. 54 concerning installation of tyres with particular design.

I. Proposal

Insert new paragraph 2.22 to read:

“2.22. Free Rolling Tyre” means a tyre, designed for the equipment of trailer axles and axles of motor vehicles other than front steering and drive axles and bearing the inscription "FRT", as defined in UN Regulation No. 54.”

Insert new paragraph 5.2.1.5 to read:

“5.2.1.5. Free Rolling Tyres marked with the inscription “FRT” shall not be fitted to front steering and drive axles of motor vehicles.”

II. Justification

According to R-54 paragraph 3.1.16 “FRT”- marked tyres are particularly designed for the use on trailer axles or on non-steered and non-driven axles of motor vehicles.

Nevertheless, motor vehicles (trucks) are sometimes equipped with “FRT”-marked tyres on driven or steered axles.

On the other hand, some tyre manufacturers point out that the warranty or liability will be lost if the tyre is not installed as intended. For example, explicit reference is made to the weaker design of “FRT”-marked tyres (e.g. reducing the bead volume to save weight).

Beyond that during Periodical Technical Inspections in Germany damages have been found in tyres with “FRT” markings when used on the steering axle, as shown in pictures 1 to 3 below.

So for clarity reasons, R-142 shall be amended to clarify that FRT tyres shall not be fitted to front steering and drive axles of motor vehicles.



Picture 1



Picture 2

