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Working Party on Brakes and Running Gear (GRRF)  
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agenda item 1.3.)

PROPOSAL FOR DRAFT AMENDMENTS TO REGULATION No. 13

(Braking)

Transmitted by the Expert from Germany

Note: The text reproduced below was prepared by the expert from Germany, on behalf of the informal group on Periodical Technical Inspections (P.T.I). It is based on the text of two documents distributed without a symbol (informal documents Nos. 4 and 21) during the forty-ninth session (TRANS/WP.29/GRRF/49, para. 24).

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Note: This document is distributed to the Experts on Brakes and Running Gear only.

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**A. PROPOSAL**

Paragraph 5.1.4.1., amend to read:

"5.1.4.1. The vehicle shall be so designed that the friction components of the brakes of which the function and efficiency is influenced by wear, can easily be checked. In all cases this shall be achieved without disassembly or removal of the wheels but the use of inspection covers is permitted."

Insert a new paragraph 5.1.4.1.1., to read:

"5.1.4.1.1. The above requirement is deemed to be fulfilled when the wear condition of the friction components is confirmed visually or by other means. The manufacturer shall, at the time of type approval, define the wear limit and the method by which assessment of the wear condition can be made. This information shall be made freely available (e.g. vehicle handbook, electronic data record)".

(alternative wording proposed by OICA)

"5.1.4.1.1. The above requirement is deemed to be fulfilled when the wear condition of the friction components is confirmed visually or by other means. In the case of inaccessible drums and discs other means may include reference to a certified service record regarding actual wear to the distance covered by the vehicle. The manufacturer shall, at the time of type approval, define the wear limit and the method by which assessment of the wear condition can be made. This information shall be made freely available (e.g. vehicle handbook, electronic data record etc)."

Paragraph 5.2.1.11.2., amend to read:

"..... are acceptable. ~~The removal of front and/or rear wheels is permitted for this purpose on category M<sub>1</sub> and N<sub>1</sub> vehicles only.~~

The yellow warning .....

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**B. JUSTIFICATION**

The current text of the Regulation requires: "The braking system shall be so designed that the components of the braking system of which the function and efficiency is influenced by wear, can easily be checked." This very general requirement is now formulated more precisely. A high risk arises from worn, cracked or broken friction components of the braking system. Therefore, it shall be possible to check the wear condition of the friction components visually or by other means.

The proposed deletion in paragraph 5.2.1.11.2. aligns with the proposed amendment in paragraph 5.1.4.1.

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