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**Economic Commission for Europe****Inland Transport Committee****World Forum for Harmonization of Vehicle Regulations****Working Party on Brakes and Running Gear (GRRF)****Seventy-fourth session**

Geneva, 19–22 February 2013

Item 6 of the provisional agenda

**Regulation No. 90 (Replacement brake linings)****Proposal for Supplement 2 to the 02 series of amendments to Regulation No. 90 (Replacement brake lining assemblies)****Submitted by the expert from Federation of European Manufacturers of Friction Materials\***

The text reproduced below was prepared by the expert from the Federation of European Manufacturers of Friction Materials (FEMFM) proposing to align the requirements for chemically and physically identical brake lining assemblies or drum brake linings. The modifications to the existing text of the Regulation are marked in bold for new or strikethrough for deleted characters. The proposal has been supported by the expert of the Russian Federation.

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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, program 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.

## I. Proposal

*Insert new paragraph 2.2.13., to read:*

**"2.2.13. Identical brake lining assembly means a replacement brake linings assembly which is chemically and physically identical, in every respect with the exception of the vehicle and/or brake manufacturer's mark, which is absent, to the original brake lining assembly."**

*Insert new paragraph 2.2.14., to read:*

**"2.2.14 Identical drum brake lining means a replacement drum brake lining which is chemically and physically identical, in every respect with the exception of the vehicle and/or brake manufacturer mark, which is absent, to the original drum brake lining."**

*Paragraphs 2.3.3.2. and 2.3.3.3., amend to read:*

"2.3.3.2. "Identical brake disc" is a replacement brake disc which is chemically and physically identical in every respect with the exception of the vehicle manufacturer mark **and/or the brake assembly manufacturer mark**, which is absent, to the original brake disc.

2.3.3.3. "Identical brake drum" is a replacement brake drum which is chemically and physically identical in every respect with the exception of the vehicle manufacturer mark **and/or the brake assembly manufacturer mark**, which is absent, to the original brake drum".

*Insert new paragraph 2.4, to read:*

**"2.4. Chemically and physically identical means identical in dimensions and the relevant mechanical and chemical properties and showing identical results in the conformity of production tests defined in paragraph 5.2.2 and Annex 9, Part A of the regulation for brake lining assemblies and drum brake linings, and Annex 9, Part B of the regulation for discs and drums.**

*Insert new paragraph 5.1.3, to read:*

**"5.1.3. Identical replacement brake lining assemblies and identical drum brake linings do not need to be tested according to the requirements of paragraph 5.2, provided that the applicant for approval demonstrates to the approval authority that he or she supplies the brake lining assemblies or the drum brake linings to the vehicle or brake manufacturer as original equipment for the specific model/models for which approval is being sought, and that he or she produces the parts under the same production conditions, quality assurance system, and with the same results of the conformity of production tests as for the original parts."**

## II. Justification

1. As for discs and drums it seems logical that also brake lining assemblies or drum brake linings that are chemically and physically identical to the original part are deemed to satisfy all legal requirements related to the vehicle. Thus any new testing against the requirements of this regulation appears as a waste of recourses and money.
  2. Obviously it is essential that the applicant can demonstrate to the authority that the part he or she is applying for approval is chemically and physically identical to the original part he or she is selling to the brake maker or directly to the vehicle manufacturer.
  3. The definition of identical parts has been extended to drums and disks to cover those cases where the original parts have the identification (e.g. marking) of the brake system supplier. This means that the definitions of identical brake lining assemblies, drum brake linings, drums and disc are now fully aligned.
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