

30 August 2022

Agreement

Concerning the Adoption of Harmonized Technical United Nations Regulations for Wheeled Vehicles, Equipment and Parts which can be Fitted and/or be Used on Wheeled Vehicles and the Conditions for Reciprocal Recognition of Approvals Granted on the Basis of these United Nations Regulations*

(Revision 3, including the amendments which entered into force on 14 September 2017)

Addendum 89 – UN Regulation No. 90

Revision 3 - Amendment 7

Supplement 7 to the 02 series of amendments – Date of entry into force: 22 June 2022.

Uniform provisions concerning the approval of replacement brake lining assemblies, drum-brake linings and discs and drums for power-driven vehicles and their trailers

This document is meant purely as documentation tool. The authentic and legal binding text is: ECE/TRANS/WP.29/2021/139.



UNITED NATIONS

* Former titles of the Agreement:

Agreement concerning the Adoption of Uniform Conditions of Approval and Reciprocal Recognition of Approval for Motor Vehicle Equipment and Parts, done at Geneva on 20 March 1958 (original version); Agreement concerning the Adoption of Uniform Technical Prescriptions for Wheeled Vehicles, Equipment and Parts which can be Fitted and/or be Used on Wheeled Vehicles and the Conditions for Reciprocal Recognition of Approvals Granted on the Basis of these Prescriptions, done at Geneva on 5 October 1995 (Revision 2).



Annex 9, Part A

Insert a new paragraph 3.1.1.1. (after paragraph 3.1.1.), to read:

"3.1.1.1. Alternatively the machine may be equipped with a disc brake and corresponding brake disc having a diameter of 278 ± 2 mm such as to allow a rectangular piece of the friction material with a surface area of $44 \text{ cm}^2 \pm 0.5 \text{ cm}^2$ and a thickness of at least 6 mm to be attached to the backing plates of the disc brake.

In this case the Registered Values of friction to be used for ongoing COP checks shall be established in accordance with the technical service by comparative tests using the same batch of friction material with the test hardware specified in 3.1.1. and the alternative hardware.

The applicant shall provide the values for the friction behavior resulting from the use of alternative test hardware in accordance with Annex 9 paragraph 3.4.1. of this Regulation and the results shall be attached to the type-approval report."
