

19 June 2023

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 82 – UN Regulation No. 83

Revision 3 – Amendment 11

Supplement 16 to the 05 series of amendments – Date of entry into force: 5 June 2023

Uniform provisions concerning the approval of vehicles with regard to the emission of pollutants according to engine fuel requirements

This document is meant purely as documentation tool. The authentic and legal binding texts is: ECE/TRANS/WP.29/2022/134.



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).



Appendix 2, paragraph 6., amend to read:

"6. Remarks

The following recursive formulae are useful for computing successive values of the test statistic:

$$\begin{aligned}\bar{d}_n &= \left(1 - \frac{1}{n}\right)\bar{d}_{n-1} + \frac{1}{n}d_n \\ V_n^2 &= \left(1 - \frac{1}{n}\right)V_{n-1}^2 + \frac{(\bar{d}_n - d_n)^2}{n-1} \\ &(n = 2, 3, \dots; \bar{d}_1 = d_1; V_1 = 0)\end{aligned}$$

..."

Annex 4a

Appendix 1, paragraph 1., amend to read:

"1. Specification

1.1. General requirements

For test and measurement equipment that is compliant with the technical requirements of UN Regulation No. 154 original series or later version, the requirements on the technical equipment described in UN Regulation No. 154 may be followed, in all other cases the following requirements shall apply:

1.1.1. The dynamometer shall be capable of simulating road load within one of the following classifications: ..."

Appendix 2, paragraph 1.2., amend to read:

"1.2. General requirements

For test and measurement equipment that is compliant with the technical requirements of UN Regulation No. 154 original series or later version, the requirements on the technical equipment described in UN Regulation No. 154 may be followed, in all other cases the following requirements shall apply:

..."

Appendix 3, paragraph 1., amend to read:

"1. Specification

For test and measurement equipment that is compliant with the technical requirements of UN Regulation No. 154 original series or later version, the requirements on the technical equipment described in UN Regulation No. 154 may be followed, in all other cases the following requirements shall apply:

..."

Appendix 4, paragraph 1., amend to read:

"1. Specification

For test and measurement equipment that is compliant with the technical requirements of UN Regulation No. 154 original series or later version, the requirements on the technical equipment described in UN Regulation No. 154 may be followed, in all other cases the following requirements shall apply:

..."

Appendix 5, paragraph 1., amend to read:

"1. Specification

For test and measurement equipment that is compliant with the technical requirements of UN Regulation No. 154 original series or later version, the requirements on the technical equipment described in UN Regulation No. 154 may be followed, in all other cases the following requirements shall apply:

..."

Appendix 6, paragraph 1., amend to read:

"1. Object

The method described in this appendix makes it possible to check that the simulated total inertia of the dynamometer is carried out satisfactorily in the running phase of the operating cycle. The manufacturer of the dynamometer shall specify a method for verifying the specifications according to paragraph 3. of this appendix.

In case of the equipment that meets UN Regulation No. 154 requirements, this application may not be required."

Annex 7

Paragraph 4., amend to read:

"4. Test equipment for evaporative test

For test and measurement equipment that is compliant with the technical requirements of UN Regulation No. 154 original series or later version, the requirements on the technical equipment described in UN Regulation No. 154 may be followed, in all other cases the following requirements shall apply:

4.1. Chassis dynamometer

The chassis dynamometer shall meet the requirements of Appendix 1 to Annex 4a to this Regulation.

..."

Appendix 1, paragraph 1., amend to read:

"1. Calibration frequency and methods

For test and measurement equipment that is compliant with the technical requirements of UN Regulation No. 154 original series or later version, the requirements on the technical equipment described in UN Regulation No. 154 may be followed, in all other cases the following requirements shall apply:

..."

Annex 11,

Paragraph 3.2.1.2., amend to read:

"3.2.1.2. A manufacturer may disable any specific OBD monitor for a given driving cycle for ambient or engine temperatures below 266 K (-7° C) or at elevations over 2,500 metres above sea level provided the manufacturer submits data and/or an engineering evaluation which adequately demonstrate that monitoring would be unreliable when such conditions exist. A manufacturer may also request disablement of any specific OBD monitor at other ambient temperatures or other elevations if they demonstrate to the authority with data and/or an engineering evaluation that misdiagnosis would occur under such conditions. It is not necessary to illuminate the Malfunction Indicator (MI) if OBD thresholds are exceeded during a regeneration provided no defect is present. "