



Economic and Social Council

Distr.: General
30 September 2021

English only

Economic Commission for Europe

Inland Transport Committee

World Forum for Harmonization of Vehicle Regulations

185th session

Geneva, 23-25 November 2021

Item 15.4. of the provisional agenda

Consideration of technical regulations to be listed in the Compendium of Candidates for UN GTRs, if any

Request to list in the compendium of candidate Global Technical Regulations (compendium of candidates) the China's Durability Test of Emission-Control Devices (Type V Test)

Submitted by the representative of China*

The document reproduced below is submitted by China to the Executive Committee (AC.3) for consideration. It is a request to include in the Compendium of Candidates the China's Durability Test of Emission-Control Devices (Type V Test). In order to be considered by AC.3, this request is accompanied by a copy of the regulations mentioned (see Article 5, paragraphs 5.2.1., 5.2.1.1. and 5.2.2. of the 1998 Agreement).

* In accordance with the programme of work of the Inland Transport Committee for 2021 as outlined in proposed programme budget for 2021 (A/75/6 (part V sect. 20) para 20.51), the World Forum will develop, harmonize and update UN Regulations in order to enhance the performance of vehicles. The present document is submitted in conformity with that mandate.



Request to list in the Compendium of Candidate Global Technical Regulations (compendium of candidates) the China's Durability Test of Emission-Control Devices (Type V Test)

1. China requests to include in the Compendium of Candidates the China's Durability Test of Emission-control Devices (Type V Test).

I. Background

2. The production and ownership of motorcycles in China is huge. Since 2002, China has put forward Type V Test requirements for motorcycles and mopeds equipped with emission-control devices. China's motorcycle emission standards have been updated twice in 2007 and 2016, and the total mileage of Type V Test have continuously increased.

3. At present, China's existing motorcycle emission standards are GB14622-2016 Limits and measurement methods for emissions from motorcycles (CHINA IV) and GB18176-2016 Limits and measurement methods for emissions of pollutants from mopeds (CHINA IV), including the Durability Test of Emission-Control Devices (Type V Test).

II. Description of Regulations

4. Scope

GB14622-2016 applies to motorcycles powered by spark-ignition engine and having the maximum designed vehicle speed of above 50 km/h or engine capacity above 50 mL, and three-wheeled motorcycles powered by compression-ignition engine and having the maximum designed vehicle speed of above 50 km/h or the engine capacity of above 50 mL.

GB18176-2016 applies to the two- or three-wheeled mopeds powered by spark-ignition engine and having the maximum designed vehicle speed of not more than 50 km/h and the engine capacity of not more than 50 mL.

5. Requirements

In GB14622-2016 and GB18176-2016, not only is the Type V Test (Full-mileage durability test or Partial-mileage durability test) required for the vehicle, but also the Precious Metal Measurement Test for the catalytic converter equipped for the vehicle.

6. Total mileage of Type V Test

<i>Vehicle classification</i>		<i>Total durability mileage (km)</i>
Two- or three-wheeled moped		11000
Two-wheeled motorcycle	I, II ^a	20000
	III ^a	35000
Three-wheeled motorcycle		20000

^a For vehicle classification, see Table C.1 of Annex C.

Table C.1
Classification of two-wheeled motorcycle

Vehicle classification		Engine capacity, V_h (mL)	Max. vehicle speed, v_{max} (km/h)
I	I	$50 < V_h < 150$	$v_{max} \leq 50$
		$V_h < 150$	$50 < v_{max} < 100$
II	II-1	$V_h < 150$	$100 \leq v_{max} < 115$
		$V_h \geq 150$	$v_{max} < 115$
	II-2	$V_h \leq 1500$	$115 \leq v_{max} < 130$
III	III-1	$V_h \leq 1500$	$130 \leq v_{max} < 140$
	III-2	$V_h > 1500$ or $v_{max} \geq 140$	

7. Operation cycle (AMA cycle)

In GB14622-2016 and GB18176-2016, the running distance in the operation process on test road or chassis dynamometer shall conform to AMA cycle.

8. In GB14622-2016 and GB18176-2016, the commercially available fuel in China is used in the Type V Test.

III. Related documents

9. GB14622-2016 Limits and measurement methods for emissions from motorcycles (CHINA IV)

10. GB18176-2016 Limits and measurement methods for emissions of pollutants from mopeds (CHINA IV)