

IWG TYREGTR 17th Meeting*

Brussels, ETRTO Office, 2-3 November 2017

Report of the Chair

* Meeting participants: Canada, China, India, Japan, Russian Federation, United States of America, ETRTO, JATMA, USTMA

Current status of the UN GTR No. 16

Reference: UN GTR No. 16, Part 1, para. 23

The table describes the non-harmonized tests applicable to LT/C tyres

<i>Test name</i>	<i>Paragraphs related to Regulation No. 54</i>	<i>Paragraphs related to FMVSS 139</i>
Marking and tread wear indicators	3.2., 3.3. and 3.4.	3.2., 3.3. and 3.4.
Physical dimensions	3.21.	3.20.
High speed test	3.16.	3.19.
Endurance test	3.16.	3.17.
Low pressure test	None	3.18.
Wet grip test	None	None
Run flat test	None	None
Strength test	None	3.14.
Bead unseating test	None	3.15.
Rolling sound emissions	3.8.	None

Subject of Amendment No. 2 to UN GTR No. 16

Reference: Authorization ECE/TRANS/WP.29/AC.3/48

- Amendment of the GTR text:
 - Addition of new definitions (Section 2)
 - Harmonization of the Load Range concept in relationship to Inflation Pressure (Section 2)
 - Alignment of the provisions with the most recent developments in UN Regulations Nos. 30 and 54 (Sections 3.3 and 3.5, Annexes 3 and 6)
 - Harmonization of FMVSS 139 requirements relative to UNECE PSI index (Sections 3.14 and 3.15)
 - Addition of new harmonized provisions for physical dimensions of LT/C tyres (new Section 3.20; old Sections 3.20 & 3.21 to be deleted)
 - Addition of new harmonized provisions for high speed test for LT/C tyres (new Section 3.19, old Section 3.16 to be modified with endurance test only, old Section 3.19 to be deleted)
- Other topics to be discussed:
 - Consideration of feasibility of harmonization of endurance test for LT/C tyres (Sections 3.16 and 3.17)
 - Consideration of feasibility of development of provisions for global tyre marking

1. Eliminating incompatibilities identified when working on harmonization of Physical Dimensions Test

Reference: TYREGTR-17-13, -06, -07, -08, -09, -15

During discussions on the proposed amendments, the tyre industry identified incompatibilities in some cases regarding the UN Regulations and U.S. FMVSS standards, which have to be addressed in the harmonized GTR text.

- **Actions (to be) taken:**

- Industry will further work out a proposal regarding Reference Test Inflation Pressure in relation to the sidewall marking in section 3.3.5 and 3.3.11.
- Industry will confirm all LT/C size specific markings (LT, CP,...) in the GTR marking section are properly addressed by the technical prescriptions of the GTR.
- Industry will prepare by next meeting the assessment of what markings (other prescriptions also to be considered) should be optional (at the discretion of the manufacturer) based on existing national regulations.
- Industry will assess the proposal made by China in paragraph 3.3.16, if these specific markings should be put in a summary table of content (checklist)
- Industry will amend the GTR text by next IWG meeting by introducing the proposal as per TYREGTR-17-09 with regard to use of a measuring rim and prepare technical rationale for that.
- Industry will check the feasibility and the most appropriate approach for defining the rim width in all GTR tests: refer to industry standards or to copy ISO in Annex 9.
- Industry will rework the definition 'Nominal section width' as in paragraph 2.43.

Plus:

- Industry will work out the text of paragraph 3.20

TYREGTR-17-15 is the draft GTR text with the IWG comments after the IWG 17th session.

2. Harmonization of provisions for High Speed Test for LT/C tyres

Reference: TYREGTR-17-11

Industry presented the High Speed test program proposal.

IWG endorsed the Industry High speed test program.

- Program 1: Assess current R54 test at 25°C vs FMVSS 139 test at 38 °C with SAL* (+5kmph/10') applying from current limit:
 - 30' at Speed corresponding to speed category symbol for R54 Load/Speed test
 - 30' at 160 kmph for FMVSS 139 High Speed test
- Program 2: Same as Program 1, but R54 made more severe by increasing test temperature to 38C
- Program 3: R54 test made more severe by increasing test temperature to 38 °C, and SAL* applying from:
 - 60' at Speed corresponding to speed category symbol for R54 Load/Speed test
 - 30' at 160 kmph for FMVSS 139 High Speed test

* SAL = Steps Above Limits

The results will be presented to GRRF at its 87th session

3. Working on the amendments proposed by China and India

References: TYREGTR-17-03, -04, -10, -05

IWG agreed that the relevant text containing alternative level of requirements as proposed by China may be included in GTR No. 16 as per Article 4.2 of the 1998 Agreement.

- **Actions (to be) taken:**

- Industry will assess in the GTR text the definitions and markings, with priority to Load Range and Ply Rating to be replaced by Load Index for LT/C tyres, that could be considered as obsolete, and prepare clear rationale to be presented in a 1st stage to IWG, and then to GRRF.
- Industry will assess paragraph 3.4, tread wear indicators, considering the R54 (that do not have provisions) for tyres with regard to tread wear indicators, FMVSS 139 (that includes Tread wear indicators) and Chinese proposal. Industry will prepare a combined proposal.
- Industry will assess if in paragraph 3.14, if GTR requirements are more stringent than the Indian and Chinese proposal. In this case, Industry will make a proposal in the GTR text presenting the GTR requirements as general requirements, and China and India proposal as optional.
- China proposal 3.16.1. Requirements will be put on hold, and will be considered when the harmonised High Speed test will be discussed.
- China will prepare by next IWG meeting a comparison table with the test conditions proposed by China and those already existing in GTR text.
- IWG agreed to introduce the Chinese proposal in 3.18 (Endurance test) as an optional Endurance test method.
- Industry will assess to remove all references to imperial units in the GTR.

4. Other discussion topics

References: TYREGTR-16-06, -04, TYREGTR-17-12

4.1. Consideration of feasibility of harmonization of endurance test for LT/C tyres (Sections 3.16 & 3.17): Presentation (TYREGTR 16-06) shown the high complexity in harmonizing the endurance test.

- **Action (to be) taken:**

- Industry will discuss internally to assess the feasibility of harmonized Endurance test, and come with a proposal on how to approach for the development of a harmonised Endurance test.

4.2. Consideration of feasibility of development of provisions for global tyre marking (proposal by the Russian Federation TYREGTR-16-04). Industry assessed of the today's situation on tyres bearing 4 marks (1% of the market).

- **Actions (to be) taken:**

- Industry will make the assessment on tyres bearing 2 markings DOT and E, with same methodology as presented in TYREGTR-17-12.
- Russian Federation will draft a memorandum explaining introduction of global marks in Tyre GTR to the Contracting Parties, convincing them to accept such marking as an alternative to their national markings, allowing the access to their market.

- The already agreed GTR text with comments/rationale on page margins
- Memorandum explaining introduction of global marks in Tyre GTR

Next IWG 18th meeting

Reference: TYREGTR-17-14

Venue: European Tyre and Rim Technical Organization (ETRTO) (maximum 28 participants)

Address: Rue Defacqz 78-80, Brussels, Belgium

Schedule: 3-day meeting in the week of June 4-8, 2018 from 09:30 to 17:30 (time tbc)

Objectives:

1. To resolve phase 2a (Physical dimensions) pending issues and finalize phase 2a proposal;
2. To consider the results of work on Harmonisation High speed test for LT/C tyres (phase 2b);
3. To finalize proposals by China and India;
4. To decide on moving forward with Endurance test;
5. To decide on moving forward with global tyre marking;
6. To continue drafting the Amendment 2 to UN GTR No. 16, the Statement of technical rationale and justification and the Technical Report

Please confirm your participation (name, organization) to this IWG meeting **at latest by 15 May 2018** to the IWG secretary, Mr. Nicolas de Mahieu, e-mail: info@etrto.org

Please send the meeting documents to the IWG secretary.

The meeting documents may be found at:

IWG 17th meeting: <https://wiki.unece.org/display/trans/TYRE+GTR+SESSION+17>

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**Thank you for your
attention
Ready to answer your
questions**