

IWG for Wet Grip on Worn Tyres (WGWT)

Status report to 72nd GRBP (September 2020)

Background and roles

- Roles

- Chair: France
- Co-chair: European Commission
- Secretary: ETRTO

- IWG WGWT webpage:

<https://wiki.unece.org/pages/viewpage.action?pageId=80380967>

Meetings and participants

- Meetings:

- 4th WGWT: October 18th, 2019 (Brussels and web conference)
- 5th WGWT: November 20th 2019 (half day, web conference)
- 6th WGWT: December 12th 2019 (half day, web conference)
- 7th WGWT: January 17th 2020 (half day, web conference)
- 8th WGWT: January 27th and 28th 2020 (Geneva).
- 9th WGWT: 5-6 March (Webconference)
- 10th WGWT: 27 April (Webconference)
- 11th WGWT: 26 May (Webconference)
- 12th WGWT: 22 June (Webconference)
- 13th WGWT: 20 July (Webconference)

- Participants:

- CP: China, European Commission, France, Germany, Netherlands, Japan, Spain, India, United Kingdom.
- NGOs: ETRTO, ITMA, JATMA, OICA, ITTAC

Schedule and time constraints (1/2)

- Regional requirement:
 - European Union: European Global Safety Regulation (EU 2019/2144)

Subject	Regulatory acts	Additional specific technical provisions	M	M	M	N	N	N	O	O	O	O	S	Component
			1	2	3	1	2	3	1	2	3	4	T	
C10 Tyre safety and environmental performance	UN Regulation No 30 UN Regulation No 54 UN Regulation No 117	A test procedure for worn tyres shall also be ensured; the dates in note C apply.	X	X	X	X	X	X	X	X	X	X	X	A

- Note “C”:
- Date for refusal to grant EU type-approval: 7 July 2024
- Date for the prohibition of the registration of vehicles, as well as the placing on the market and entry into service of components and separate technical units: 7 July 2026

Schedule and time constraints (2/2)

- Target is to have
 - A Status Report for GRBP 73rd session (January 2021)
 - A Working Document for adoption in GRBP 74rd session (September 2021)*
- * Note: to match this target, the Working Document should be submitted by June 2021 when the test plan and analysis could be not fully completed. The Working Document could be then submitted in a 'draft' version to be amended in the same September 2021 GRBP session by an Informal Document.
- ECE/TRANS/WP.29/GRBP/2020/11 is the request from the IWG WGWT to extend the IWG mandate until September 2021.

Objective: Wet Grip on Worn Tyre IWG

- Terms of reference:
 - GRB-69-23
 - Amendment agreed based on GRBP-70-03
 - Extension of mandate by ECE/TRANS/WP.29/GRBP/2020/11
- To consider:
 - Evaluation of the method for preparing a tyre to be tested in worn state
 - Definition of test conditions
 - Description of the test method
 - Data analysis and measurement system analysis
 - Threshold definition
- Aim is to follow the current UN R117 and to add new requirements on wet grip for worn tyres according to the results of the IWG work.
 - UN Regulation N° 117
 - for pneumatic tyres of class C1

Status and next step of the IWG WGWT

- Definition of worn tyres and buffing procedure (proposal agreed)
 - Parameters (remaining tread depth, roughness, wear profile) to be assessed by the test campaign.
- Wet grip test procedure
 - IWG agreed to refer to the future Wet Grip test procedure (GRBP-70-20)
 - Parameters (reference tyre, test conditions, tyre sizes, ...) to be assessed by the test campaign.
- Test campaign
 - agreed and shared within the IWG
 - Around 900 tyres to be tested representing the C1 market.

Status and next step of the IWG WGWT

- Work progress since last GRBP
 - Covid-19 impacted the IWG Workplan
 - Logistics are completed
 - Buffing process is ongoing and in line with IWG plan
 - Test report templates have been prepared and data compiling process is defined.
 - First tests started in July

Target timeline

	2019			2020												2021												2022													
	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D		
1.a) Define candidates list for screening test plan																																									
1.b) Define candidates list for analytical test plans																																									
1.c) Built a test plan matrix: candidate x test method x participant																																									
2.a) Buy tires - and deliver them to buffing centers																																									
2.b) Deliver SRTTs them to participants																																									
2.c) Deliver SRTTs to buffing centers																																									
3) Buff tires																																									
4) Test tires																																									
5) Share results & analyze																																									
6) Drafting the proposal																																									
Status report for Jan-2021 GRBP																																									
Working document submittal for Sept-2021 GRBP																																									
Informal document supplementing the working document																																									
WP29 adoption																																									
Entry into force																																									

Extension of IWG WG WT scope

- European Commission presented to the IWG the proposal to extend the IWG scope to C2 and C3 tyres, in line with Regulation (EU) 2019/2144.
- Following GRBP agreement, IWG will investigate wet grip of C2 and C3 worn tyres.
- This scope extension is reflected in GRBP-72-02 (EC)

Thank you for your attention!