

IWG for Wet Grip on Worn Tyres (WGWT)

Status report to 78th GRBP (August - September 2023)

IWG for Wet Grip on Worn Tyres

Targets

- For tyres of Class C1
 - Evaluate the method for preparing a tyre to be tested in worn state at its type-approval;
 - Define the test conditions;
 - Describe the test methods;
 - Define the type-approval thresholds of tyre wet grip performance in worn state.
 - Introduce “moulded SRTTworn”
 - Define the water depth measurement methods;
 - Improve the precision of test procedure
- Address the suitable requirements for tyres of classes C2 and C3

Roles

- Co-chairs: France and European Commission
- Secretariat: ETRTO (European Tyre and Rim Technical Organisation)

Web page

[IWG Wet Grip of Worn Tyres \(WGWT\) - Transport - Vehicle Regulations - UNECE Wiki](#)

IWG WGWT: facts and figures



- Meetings

- 49th WGWT: 27th January 2023 (webconference)
- Workshops on waterdepth measurement: 27th January, 1st, 20th, 27th, February and 27th March (Webconference)
- 50th WGWT: 18th April 2023 (webconference)
- 51st WGWT: 5th June 2023 (webconference)
- 52nd WGWT: 20th July 2023 (hybrid)



- Attendees ~40

- CPs: China, European Commission, France, Germany, Japan, the Netherlands, Spain
- NGOs: ETRTO, ITMA, JATMA, OICA, ITTAC, USTMA

IWG WGWT: work progress

Reminder

- For tyres of Class C1
 - Evaluate the method for preparing a tyre to be tested in worn state at its type-approval;
 - Define the test conditions; R117.03
 - Describe the test methods; (GRBP75)
 - Define the type-approval thresholds of tyre wet grip performance in worn state. (WP29-187)
 - Introduce “moulded SRTTworn” (WP29-189)
 - Define the water depth measurement methods; 2023 test campaign
 - Improve the precision of test procedure 2024-25 test campaign
- Address the suitable requirements for tyres of classes C2 and C3 R117.04
(GRBP76)
(WP29-189)

Background

- Test precision today for WGWT needs to be improved to be comparable with wet grip of tyres in new state in UNR117,

IWG WGWT: work progress

Test precision improvement

- 2023 test campaign
 - Focus on water depth measurement to test the recommendations made in [WT-50-3](#)
 - Main parameter on wet grip measurement accuracy
 - parameters to consider:
 - Different test tracks (MTD)
 - Different watering system (external/self-watering)
 - Different methods (vehicle/trailer)
 - Covering all the temperature range
 - 14 test centers in total: 9 with trailer, 5 with vehicle
 - Improvement of the test precision: additional test campaign in 2024-2025 foreseen (to confirm based on 2023 test campaign conclusion)

IWG WGWT timeline

		2023												2024												2025												2026											
		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	J	F	M	A	M	J	J	A	S	O	N	D
R117.03 supp 2 R117.04 supp 1	water depth measruement harmonisation: 2023 test campaign																																																
	informal and working documents for Feb. & Sept. 2024 GRBP																																																
	test precision improvement: 2024-2025 test campaign																																																
	informal and working documents for Sept. 2025 and Jan. 2026 GRBP																																																
Application of new regulation for worn C1, C2, C3 tyres																																																	

- document submission timeline
- document adoption timeline GRBP
- document adoption timeline WP29
- entry into force
- additional test campaign (test precision: water depth)
- additional test campaign (test precision improvement depending on water depth test campaign conclusion)

Thank you for your attention!