

IWG for Wet Grip on Worn Tyres (WGWT)

Status report to 77th GRBP (February 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 by using the moulded SRTTworn
- 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

- 44th WGWT: 27th July (Webconference)
- 45th WGWT: 13th September (Webconference)
- 46th WGWT: 13th October (Webconference)
- 47th WGWT: 7th November (Webconference)
- 48th WGWT: 13th December (Webconference)
- 49th WGWT: 27th January 2023 (Webconference)
- Workshop on waterdepth measurement:
27th January and 1st February (Webconference)



- 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;
 - Improve the precision of test procedure by using the moulded SRTTworn
- Address the suitable requirements for tyres of classes C2 and C3 R117.04
(GRBP76)
(WP29-189)

IWG WGWT: work progress

Finalisation of UNR117.03 & 04

- Introduce the ASTM standard reference for molded SRTTworn: [GRBP/2023/2](#) (UNR117, 03 series, supplement 1) and [GRBP/2023/3](#) (UNR117, 04 series)

Test precision improvement

- Work on the definition of the 2023 test campaign
 - Decision taken to focus first on water depth standardisation
 - 15 test centers in total: 12 with trailer, 5 with vehicle, 2 test with both
 - Workshop:
 - experience mapping with pro and cons of each test procedure
 - Instrument specification recommendation
- Postponement of the improvement of the test precision based on an additional test campaign in 2024-2025 (to meet all ambient conditions)
- Update of the ToRs accordingly as per [GRBP-77-03](#)

IWG WGWT timeline

- 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)

	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																																				
water depth standardisation: 2023 test campaign																																																																																				
informal and working documents for Sept. 2023 and Feb. 2024 GRBP													ID												WD																																																											
test precision improvement: 2024-2025 test campaign																																																																																				
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Application of new regulation for worn C1, C2, C3 tyres																																																	New Types																								All Types											

Focus on 2023 – waterdepth test campaign

	Q4/2022	Q1/2023	Q2/2023	Q3/2023	Q4/2023	Q1/2024
Step 1.1_ Test centers mapping						
Step 1.2_ Water Depth measurement improvement						
Step 1.3_ Test plan			*			
Step 1.4_ Modeling/ Data analysis						
GRBP ID						
GRBP WD submission						
GRBP WD						

* pending on the completion of Step 1.2
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Thank you for your attention!