Informal document GRBP-77-30 (77th GRBP, February 7-10, 2023, agenda item 5e

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

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 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
 R117.04

         (GRBP76)
         (WP29-189)
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IWG WGWT: work progress

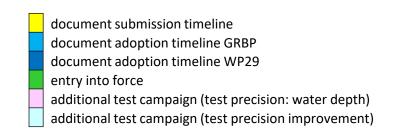
Finalisation of UNR117.03 & 04

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 <u>GRBP-77-03</u>

IWG WGWT timeline



	2023							2024								2025									2026																
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Application of new regulation for worn C1, C2, C3 tyres		\Box	\prod	$oldsymbol{oldsymbol{oldsymbol{oldsymbol{\Box}}}$	$oldsymbol{ol}}}}}}}}}}}}}}}$	I	I	I			$oldsymbol{oldsymbol{oldsymbol{oldsymbol{I}}}$					١	<mark>le</mark> w	Тур	es														I				AII 7	Туре	es	$oldsymbol{ol}}}}}}}}}}}}}}}$	

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						

Thank you for your attention!