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; ✓
  - Define the type-approval thresholds of tyre wet grip performance in worn state. ✓
  - Introduce “moulded SRTTworn” ✓
  - Define the water depth measurement methods; ✓
  - Address the suitable requirements for tyres of classes C2 and C3 ✓

- Improve the precision of test procedure ✓

### 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

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- **Document Submission Timeline**
  - R117.03 supp 2
  - R117.04 supp 1

**Note:**
- **Document Submission Timeline**
  - **ID:** Document submitted
  - **WD:** Document adopted
  - Additional test campaign (test precision: water depth)
  - Additional test campaign (test precision improvement depending on water depth test campaign conclusion)

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Thank you for your attention!