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### Inland Transport Committee

### World Forum for Harmonization of Vehicle Regulations

### Working Party on Noise and Tyres

Seventy-seventh session

Geneva, 7–10 February 2023

## Report of the Working Party on Noise and Tyres on its Seventy-Seventh Session

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## I. Attendance

1. The Working Party on Noise and Tyres (GRBP) held its seventy-seventh session from 7 to 10 February 2023 in Geneva. The meeting was chaired by Mr. S. Ficheux (France). Experts from the following countries participated in the work following Rule 1(a) of the Rules of Procedure of the World Forum for Harmonization of Vehicle Regulations (WP.29) (TRANS/WP.29/690/Rev.2): China, Czechia, Finland, France, Germany, Hungary, India, Italy, Japan, Netherlands, Norway, Republic of Korea, San Marino, South Africa, Spain, Sweden, Switzerland and United Kingdom of Great Britain and Northern Ireland. Experts from the European Union participated. Experts from the following non-governmental organizations also participated: Bureau International Permanent des Associations de Vendeurs et Rechapeurs de pneumatiques (BIPAVER), European Association of Automotive Suppliers (CLEPA), European Garage Equipment Association (EGEA), European Tyre and Rim Technical Organization (ETRTO), Imported Tyre Manufacturers Association (ITMA), International Motorcycle Manufacturers Association (IMMA), International Organization for Standardization (ISO) and International Organization of Motor Vehicle Manufacturers (OICA).

## II. Adoption of the agenda (agenda item 1)

*Documentation:* ECE/TRANS/WP.29/GRBP/2023/1, Informal documents GRBP-77-01, GRBP-77-06

2. GRBP considered and adopted the agenda (ECE/TRANS/WP.29/GRBP/2023/1, as amended by GRBP-77-01). GRBP noted the running order proposed by the Chair (GRBP-77-06). The informal documents are listed in annex I. The GRBP informal groups are given in annex III.

## III. UN Regulation No. 41 (Noise emissions of motorcycles) (agenda item 2)

*Documentation:* ECE/TRANS/WP.29/GRBP/2023/6, Informal document GRBP-77-02

3. The expert from IMMA tabled a proposal that aimed to complete the additional sound emission provisions' table in the communication form of the 05 series of amendments to UN Regulation No. 41 (ECE/TRANS/WP.29/GRBP/2023/6). GRBP adopted the proposal and requested the secretariat to submit it for consideration and vote at the June 2023 sessions of WP.29 and the Administrative Committee of the 1958 Agreement (AC.1) as draft Supplement 2 to the 05 series of amendments to UN Regulation No. 41.

4. The experts of IMMA and ISO proposed to include a reference to the latest standard ISO 10844:2021 test track in UN Regulations Nos. 41 and 63, while keeping reference to the previous version ISO 10844:2014 (GRBP-77-02). GRBP generally supported this proposal and invited IMMA and ISO to prepare an official document for consideration at the next session.

## IV. UN Regulation No. 51 (Noise of M and N categories of vehicles) (agenda item 3)

*Documentation:* ECE/TRANS/WP.29/2023/2, ECE/TRANS/WP.29/GRBP/2023/12, Informal documents GRBP-77-05, GRBP-77-07, GRBP-77-08, GRBP-77-09, GRBP-77-10-Rev.1, GRBP-77-13-Rev.1, GRBP-77-14, GRBP-77-15-Rev.1, GRBP-77-26, GRBP-77-28

5. The experts from the Informal Working Groups on Measurement Uncertainties (IWG MU) and on Additional Sound Emission Provisions (IWG ASEP), as well as from ISO, presented editorial corrections and clarifications to the 03 series of amendments to UN Regulation No. 51 (ECE/TRANS/WP.29/GRBP/2023/12, GRBP-77-05 and GRBP-77-26). GRBP supported these amendments and noted that they were already included in

ECE/TRANS/WP.29/2023/2 that would be considered by WP.29 at its forthcoming session in March 2023.

6. The Chair of IWG MU reported on their activities (GRBP-77-10-Rev.1) and presented amendments to the document of reference on measurement uncertainties (GRBP-77-07 and GRBP-77-08). GRBP adopted the amendments and requested the secretariat to publish the revised document of reference on the GRBP website.

7. The expert from IWG MU introduced a proposal that aimed to amend UN Regulation No. 51 with tables showing the measurement uncertainties when performing type approval, conformity of production (COP) or field testing (e.g. market surveillance) (GRBP-77-09). Some GRBP experts suggested that these tables be included not in the UN Regulation, but in another document, for example, the above document of reference. Following an exchange of views, GRBP decided to revert to this issue at the next session.

8. GRBP recalled that, on 1 July 2023, a one-year monitoring period would start for collecting and analysing test data on the Real Driving Additional Sound Emission Provisions (RD ASEP). The expert from OICA presented their views on the organization of this process (GRBP-77-14) and proposed a draft monitoring data sheet for the purposes of RD ASEP data collection (GRBP-77-15-Rev.1). GRBP noted that the Technical Services, under overall responsibility of the Type Approval Authorities, should play a key role in gathering the required data sets and sending them not less than every three months to an independent contractor selected by OICA, who would check the quality and analyse the data. OICA invited Contracting Parties to inform OICA by the end of February 2023, if they would be willing to financially contribute to the project.

9. To clarify the process of data collection, the experts from Germany and OICA proposed amendments to UN Regulation No. 51 (GRBP-77-13-Rev.1). GRBP adopted the proposal and requested the secretariat to submit it for consideration and vote at the June 2023 sessions of WP.29 and AC.1 as draft Supplement 9 to the 03 series of amendments to UN Regulation No. 51. GRBP also requested the secretariat to publish on the GRBP website, the final version of the monitoring data sheet (currently GRBP-77-15-Rev.1) which would be available in May 2023.

10. GRBP noted that the above amendments, if approved in June 2023, would enter into force around January 2024, while the data collection should start on 1 July 2023. GRBP counted on the cooperation of Contracting Parties and urged Type Approval Authorities and Technical Services to collect and transmit the RD ASEP data as of 1 July 2023. GRBP also invited WP.29, at its June 2023 session, to reiterate this request to Contracting Parties.

11. In view of the forthcoming RD ASEP monitoring, GRBP agreed to resume the activities of IWG ASEP and to extend its mandate until December 2024. At its next session, GRBP decided to review the Terms of Reference of IWG ASEP and invited experts to prepare proposals.

12. The expert from China reported on their research on measurement methods for heavy-duty vehicles in multiple driving mode conditions (GRBP-77-28). The experts from Germany and OICA commented on the study.

## **V. UN Regulation No. 138 (Quiet road transport vehicles) (agenda item 4)**

*Documentation:* Informal document GRBP-77-29

13. The expert from the Task Force on Quiet Road Transport Vehicles (TF QRTV) reported on their activities (GRBP-77-29), in particular on the expected revision of standard ISO 16254 where a five-microphone array would be used instead of a single microphone.

## VI. Tyres (agenda item 5)

### A. UN Regulation No. 54 (Tyres for commercial vehicles and their trailers)

*Documentation:* ECE/TRANS/WP.29/GRBP/2023/11, Informal document GRBP-77-24

14. The expert from ETRTO tabled a set of amendment proposals (ECE/TRANS/WP.29/GRBP/2023/11 and GRBP-77-24). Subject to replacement of “%” with “per cent” in paragraph 6.2.5.1., GRBP adopted the proposals, as laid down in GRBP-77-24, and requested the secretariat to submit them for consideration and vote at the June 2023 sessions of WP.29 and AC.1 as draft Supplement 26 to UN Regulation No. 54.

### B. UN Regulation No. 75 (Tyres for L-category vehicles)

*Documentation:* ECE/TRANS/WP.29/GRBP/2023/7, Informal document GRBP-77-21

15. The expert from ETRTO introduced corrections and clarifications (ECE/TRANS/WP.29/GRBP/2023/7). GRBP adopted the proposal, as amended by GRBP-77-21, and requested the secretariat to submit it for consideration and vote at the June 2023 sessions of WP.29 and AC.1 as draft Supplement 20 to UN Regulation No. 75.

### C. UN Regulation No. 106 (Tyres for agricultural vehicles and their trailers)

*Documentation:* ECE/TRANS/WP.29/GRBP/2023/9

16. The expert from ETRTO proposed to extend the scope of this UN Regulation to tyres of the speed category, symbol E in order to accommodate the technical evolution of agricultural and forestry vehicles (ECE/TRANS/WP.29/GRBP/2023/9). The expert from Germany expressed concerns over the possible misfitting of tyres on rims, should this proposal be adopted. Some other experts pointed out that they needed more time to study the proposal. Those experts also held the general view that such brand new proposals should first be introduced as an informal document and only later as a working document at the subsequent session, thus giving all experts ample time to study the proposal. Consequently, GRBP decided to postpone the discussion to the next session. In the interim, interested experts were invited to provide their comments and/or questions to ETRTO.

### D. UN Regulation No. 109 (Retreaded tyres for commercial vehicles and their trailers)

*Documentation:* ECE/TRANS/WP.29/GRBP/2023/4,  
ECE/TRANS/WP.29/GRBP/2023/10, Informal documents GRBP-77-16 and GRBP-77-22

17. The expert from France proposed aligning the test procedures in UN Regulation No. 109 with those in UN Regulation No. 117 (ECE/TRANS/WP.29/GRBP/2023/4). Subject to replacement of “Annex 7” with “Annex 10” in the introductory line, GRBP adopted the proposal and requested the secretariat to submit it for consideration and vote at the June 2023 sessions of WP.29 and AC.1 as draft Supplement 12 to UN Regulation No. 109.

18. The expert from ETRTO introduced corrections (ECE/TRANS/WP.29/GRBP/2023/10 and GRBP-77-22). GRBP adopted the corrections, as laid down in GRBP-77-22, and requested the secretariat to submit them for consideration and vote at the June 2023 sessions of WP.29 and AC.1 as part of draft Supplement 12 to UN Regulation No. 109.

19. The group of experts on the split of the UN Regulations on retreaded tyres reported on their activities (GRBP-77-16) and proposed drafting a new UN Regulation on approval of

retreaded tyres with regard to their snow performance, together with amending UN Regulations Nos. 108 and 109. GRBP agreed to include this work in its list of priorities.

## **E. UN Regulation No. 117 (Tyre rolling resistance, rolling noise and wet grip)**

*Documentation:* ECE/TRANS/WP.29/2023/6, ECE/TRANS/WP.29/2023/8, ECE/TRANS/WP.29/GRBP/2023/2, ECE/TRANS/WP.29/GRBP/2023/3, ECE/TRANS/WP.29/GRBP/2023/5, ECE/TRANS/WP.29/GRBP/2023/8, Informal documents GRBP-77-03, GRBP-77-11, GRBP-77-12, GRBP-77-23, GRBP-77-30, GRBP-77-32

20. On behalf of the Informal Working Group on Wet Grip Performance of Tyres in Worn State (IWG WGWT), the expert from France reported on its progress (GRBP-77-30) and proposed to update its Terms of Reference (GRBP-77-03). GRBP decided to extend the mandate of IWG WGWT until February 2026 and adopted its revised Terms of Reference, as contained in annex II.

21. The expert of IWG WGWT proposed to add the missing references for the molded standard reference test tyre (SRTT16) in the 03 and 04 series of amendments to UN Regulation No. 117 (ECE/TRANS/WP.29/GRBP/2023/2 and ECE/TRANS/WP.29/GRBP/2023/3). GRBP endorsed these references and noted that they had been already included in ECE/TRANS/WP.29/2023/6 and ECE/TRANS/WP.29/2023/8 which would be considered by WP.29 and AC.1 at their forthcoming session in March 2023.

22. The expert from the European Commission proposed a new transitional provision (ECE/TRANS/WP.29/GRBP/2023/5). Following an in-depth discussion, GRBP adopted this proposal, as amended by GRBP-77-32, and requested the secretariat to submit it for consideration and vote at the June 2023 sessions of WP.29 and AC.1 as part of draft Supplement 1 to the 04 series of amendments to UN Regulation No. 117.

23. The expert from ETRTO proposed a correction (ECE/TRANS/WP.29/GRBP/2023/8). GRBP adopted the correction and requested the secretariat to submit it for consideration and vote at the June 2023 sessions of WP.29 and AC.1 as part of draft Supplement 1 to the 04 series of amendments to UN Regulation No. 117.

24. The expert from IWG MU proposed to update the rolling noise temperature correction for C1 tyres (GRBP-77-11 and GRBP-77-12). GRBP invited IWG MU to submit an official document for consideration at the next session.

25. The expert from the American Automotive Policy Council (AAPC) briefly introduced GRBP-77-23 and requested that time be allocated for discussion at the next session. He pointed out that several Middle Eastern countries outside the 1958 Agreement implement national and regional requirements based on UN Regulation No. 117. In the region, specialized pickup trucks are used in oil fields, mining, agriculture, forestry and other rough terrains for heavy tasks. According to the expert, for safety and durability reasons, these vehicles require suitable tyres where the vehicle mass and tyre combinations do not permit compliance with the rolling resistance limits of UN Regulation No. 117. GRBP invited GRBP experts to provide feedback and agreed to address this issue in detail at the next session.

## **F. Other UN Regulations on tyres**

26. No issues were considered under this item.

## **VII. UN Regulation No. 165 (Reverse warning) (agenda item 6)**

27. At the request of the expert from the United Kingdom, GRBP skipped this agenda item.

## **VIII. Exchange of information on national and international requirements on noise levels (agenda item 7)**

*Documentation:* Informal documents GRBP-76-14, GRBP-77-25

28. The expert of the Task Force on Vehicle Sound (TF VS) reported on their activities (GRBP-77-25) and recalled the study on the limits of sound levels of M- and N-category vehicles that had been presented at the previous session (GRBP-76-14). GRBP requested the secretariat to publish the study as a reference document on the website.

## **IX. Proposal for amendments to the Consolidated Resolution on the Construction of Vehicles (agenda item 8)**

29. No proposals were considered under this agenda item.

## **X. Development of the International Whole Vehicle Type Approval system (agenda item 9)**

30. No new information was provided.

## **XI. Highlights of the recent sessions of the World Forum for Harmonization of Vehicle Regulations (agenda item 10)**

*Documentation:* Informal document GRBP-77-04

31. GRBP took note of the highlights of the November 2022 session of WP.29 on GRBP and common issues (GRBP-77-04).

## **XII. Exchange of views on the future work of the Working Party on Noise and Tyres (agenda item 11)**

*Documentation:* Informal document GRBP-77-27

32. The Chair presented a revised list of priorities (GRBP-77-27). Taking into consideration various new items discussed at the present session, GRBP proposed to include them in the list and requested the Chair to update the document accordingly.

## **XIII. Other business (agenda item 12)**

*Documentation:* Informal documents WP.29-188-20, GRBP-77-17, GRBP-77-18 and GRBP-77-19, GRBP-77-20, GRBP-77-31

33. GRBP was briefed on the activities of the Informal Working Group for the Electronic Database for the Exchange of Type Approval Documentation (IWG DETA) with the aim to start the use of the "Unique Identifier" (UI) in UN Regulations. In particular, GRBP noted that IWG on DETA had provided a template to be used by the WP.29 subsidiary Working Parties (GRs) for the implementation of UI in UN Regulations (WP.29-188-20).

34. GRBP recalled that, at its previous session, it had agreed that the use of UI in the context of GRBP UN Regulations would not bring additional benefits. GRBP noted that, according to Schedule 5 to the 1958 Agreement, the use of UI is allowed, unless provided

otherwise in a UN Regulation. GRBP was informed that, at the WP.29 session in November 2022, two solutions had been suggested to ban the use of UI:

- (a) Elaborate a standard prohibiting clause to be inserted in UN Regulations; or
- (b) Adopt an amendment to Schedule 5 of the 1958 Agreement.

35. Some experts pointed out that option (b) would be less time consuming. At the same time, GRBP noted that, in case of need, UN Regulations in the scope of GRBP could be amended one by one or in blocks with the standard clause under option (a).

36. The expert for the Special Interest Group on Automated Vehicles Regulation Screening (SIG AVRS) reported on their progress (GRBP-77-17, GRBP-77-18 and GRBP-77-19). In particular, SIG AVRS had preliminarily screened 21 UN Regulations under the responsibility of GRBP and identified 13 UN Regulations for further consideration. GRBP noted that the future activities would include formalization of the report and its submission to WP.29, prioritization of findings in the GRBP priority list and inclusion of further assessment of specific UN Regulations in future Terms of Reference of SIG AVRS.

37. The expert from ISO informed GRBP about a full review of the Federal Motor Vehicle Safety Standards (FMVSS) undertaken in the United States of America for the purposes of automated driving systems (ADS). The expert from OICA recalled that the European Union had adopted an ADS framework where some UN Regulations had also been reviewed.

38. GRBP invited all experts to help SIG identify the required changes in UN Regulations and set up priorities, taking into account the priorities of WP.29 and Working Party on Automated/Autonomous and Connected Vehicles (GRVA). GRBP also noted that WP.29 had requested the Working Party on General Safety Provisions (GRSG) and GRVA to collaborate on developing new vehicle categories (or subcategories) dedicated to ADS.

39. GRBP was informed that the WP.29 Coordination Committee (AC.2) had recommended that GRBP should analyse research and establish high level principles for the possible ADS external audible signals.

40. GRBP noted a progress report of the Task Force on Tyre Abrasion (TF TA) (GRBP-77-31), including the work on different test methods and the 2023 validation and correlation test campaign.

41. The expert from IMMA introduced a draft document for reference with industry guidelines on the antitampering provisions for Non-Original Replacement Exhaust Systems (NORESS) in UN Regulation No. 92 (GRBP-77-20). GRBP experts generally supported the document and made several suggestions for improvement. GRBP agreed to revert to this issue at the next session in order to update the document and later publish it as a document of reference on the GRBP website.

42. GRBP paid tribute to Mr. K. Feith, former American expert in GRBP, who had passed away. GRBP recognized his substantial contributions to the GRBP work, in particular on QRTV, and conveyed condolences to his family.

#### **XIV. Provisional agenda for the next session (agenda item 13)**

43. For its seventy-eighth session, scheduled to be held in Geneva from 30 August to 1 September 2023, GRBP decided to keep the same structure for the provisional agenda, subject to the inclusion of a new subitem “Tyre abrasion” under the item “Tyres”. GRBP noted that the deadline for the submission of official documents to the secretariat would be 6 June 2023, twelve weeks prior to the session.



## Annex I

## List of informal documents (GRBP-77-...) distributed during the session

<i>Symbol</i>	<i>Transmitted by</i>	<i>Agenda item</i>	<i>Title</i>	<i>Follow-up</i>
1	Secretariat	1	Updated provisional agenda	a
2	ISO and IMMA	2	Proposal for amendments to the 04 and 05 series of amendments to UN Regulations No. 41 and to the 02 series of amendments to UN Regulations No. 63	b
3	IWG WGWT	5 (e)	Proposal for revised Terms of Reference of the Informal Working Group on Wet Grip Performance for Tyres in a Worn State	d
4	Secretariat	1, 10	General information and WP.29 highlights	a
5	IWG MU, IWG ASEP and ISO	3	Consolidated version of Supplement 8 to the 03 series of amendments to UN Regulation No. 51	d
6-Rev.1	Chair	1	Running order	a
7	IWG MU	3	Proposal for a document for reference: a general approach how to handle measurement uncertainty	a
8	IWG MU	3	Proposal for Revision 2 to the document for reference: a general approach how to handle measurement uncertainty (ECE/TRANS/WP.29/GRBP/2022/9/Rev.1)	a
9	IWG MU	3	Proposal for Supplement 9 to the 03 series of amendments to UN Regulation No. 51	c
10-Rev.1	IWG MU	3	Status report	a
11	IWG MU	5 (e)	Proposal for UN Regulation No. 117 C1 tyre rolling noise temperature correction update	b
12	IWG MU	5 (e)	UN Regulation No. 117 rolling sound emission: C1 temperature correction proposal	b
13-Rev.1	Germany and OICA	3	Supplement 9 to the 03 series of amendments to UN Regulation No. 51	d
14	OICA	3	Organizational Questions regarding the Monitoring Phase of RD-ASEP	a
15	OICA	3	RD-ASEP Monitoring Data sheet V4	a
16	Group of experts	5 (d)	Status report	a
17	SIG AVRS	12	Table of UN Regulations	a
18	SIG AVRS	12	Report: presentation	a
19	SIG AVRS	12	Report	a
20	IMMA	12	Proposal for a document of reference	b
21	ETRTO	5 (b)	Proposal to amend ECE/TRANS/WP.29/GRBP/2023/7	d
22	ETRTO	5 (d)	Proposal to replace ECE/TRANS/WP.29/GRBP/2023/10	d
23	AAPC	5 (e)	Special use case under UN Regulation No. 117	e
24	ETRTO	5 (a)	Proposal to replace ECE/TRANS/WP.29/GRBP/2023/11	d
25	TF VS	7	Status report	a
26	IWG MU, IWG ASEP and ISO	3	Explanations of ECE/TRANS/WP.29/GRBP/2023/12 and GRBP-77-05	d
27	Chair	11	Subjects under consideration of GRBP	c

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<i>Symbol</i>	<i>Transmitted by</i>	<i>Agenda item</i>	<i>Title</i>	<i>Follow-up</i>
28	China	3	Research on measurement methods for HDV in multiple driving mode conditions	a
29	TF QRTV	4	Status report	a
30	IWG WGWT	5 (e)	Status report	a
31	TF TA	12	Status report	a
32	ETRTO	5 (e)	Proposal to amend ECE/TRANS/WP.29/GRBP/2023/5	d

*Notes:*

- a Consideration completed or superseded.
- b Continue consideration at the next session with an official symbol.
- c Continue consideration at the next session as an informal document.
- d Adopted and to be submitted to WP.29.
- e Withdrawn.

## Annex II

### Revised Terms of Reference of the Informal Working Group on Wet Grip Performance for Tyres in a Worn State (based on GRBP-77-03)

#### I. Proposal

##### A. Introduction

1. At the sixty-ninth session of the Working Party on Noise (GRB), it was pointed out that the wet grip performance of tyres decreases with tyre wear, so the current testing (performed on new tyres) does not represent the worst-case situation. The process of adapting the requirements on tyres should continue, in particular to ensure that tyre performance is also assessed, if relevant, at the end of a tyre's life (in worn state) and to promote the idea that tyres should meet the requirements throughout their life and not be replaced prematurely. UN Regulation No. 117 now contains detailed provisions on noise, rolling resistance and wet grip performance of tyres that can be amended to take into account some other prescriptions.
2. An informal working group was created in 2019 to define prescriptions for wet grip performance of tyres in worn state (IWG WGWT).
3. This proposal establishes the updated Terms of Reference for IWG WGWT.
4. The aim of the group is to propose an amendment to UN Regulation No. 117 under the 1958 Agreement.

##### B. Objectives

5. The scope and purpose are based on ECE/TRANS/WP.29/GRB/2019/6, ECE/TRANS/WP.29/GRBP/70, paragraph 18 and ECE/TRANS/WP.29/GRBP/71, paragraph 16.
6. The future amendment to UN Regulation No. 117 will apply to new pneumatic tyres of class C1 and will address also the suitable requirements to those of classes C2 and C3.
7. IWG WGWT shall:
  - Consider the scope and elaborate the target;
  - 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 SRTT<sub>worn</sub>”.
    - Define the water depth measurement methods.
    - Improve the precision of test procedure.
  - Address the suitable requirements for tyres of classes C2 and C3.
8. IWG WGWT shall work in the framework of the 1958 Agreement and shall report to GRBP.

### **C. Rules of Procedure**

9. IWG WGWT shall be open to all participants of the Working Party on Noise and Tyres (GRBP).
10. IWG shall be (co-)chaired by France (and the European Commission). The European Tyre and Rim Technical Organization (ETRTO) shall act as Secretary.
11. The working language will be English.
12. All documents and/or proposals must be submitted to the Secretary of IWG in a suitable electronic format at least one week before a scheduled meeting.
13. An agenda and the latest draft document will be circulated to all members of IWG in advance of all scheduled meetings.
14. All IWG documentation will be made available on the dedicated ECE website.

### **D. Timeline**

15. IWG shall aim to present:
  - A progress report and an informal document at the seventy-eighth session of GRBP in September 2023 and a working document for adoption at the seventy-ninth session of GRBP in February 2024 at the latest, on the wet grip of C1 class tyres in a worn state to define the water depth measurement methods.
  - An informal document at the eighty-second session of GRBP in September 2025 and a working document for adoption at the eighty-third session of GRBP in February 2026 at the latest, on the wet grip of C1 class tyres in a worn state to improve the precision of test procedures.

## Annex III

### GRBP informal groups

<i>Informal group</i>	<i>Chair(s) and Co-Chair(s)</i>	<i>Secretary</i>	<i>Expiry date of the mandate</i>
Quiet Road Transport Vehicles (QRTV) for GTR	Mr. Ezana Wondimneh (USA) Mr. Ichiro Sakamoto (Japan)	Mr. Anne Serra (European Commission)	December 2023
Additional Sound Emission Provisions (ASEP)	Mr. Bernd Schüttler (Germany) Mr. Dongming Xie (China) Mr. Kazuhiro Okamoto (Japan)	Ms. Françoise Silvani (OICA)	December 2024
Wet Grip performance for Tyres in Worn state (WGWT)	Mrs. Elodie Collot (France)	Mr. Nicolas de Mahieu (ETRTO)	February 2026
Measurement Uncertainties (IWG MU)	Mr. Truls Berge (Norway)	Mr. Klaus Neuhaus (OICA)	September 2023