



ECONOMIC COMMISSION FOR EUROPE

INLAND TRANSPORT COMMITTEE

World Forum for Harmonization of Vehicle Regulations

Working Party on Noise

**REPORT OF THE WORKING PARTY ON NOISE
ON ITS FORTY-EIGHTH SESSION
(Geneva, 1-3 September 2008)**

CONTENTS

	<u>Paragraphs</u>	<u>Page</u>
I. ATTENDANCE	1	3
II. ADOPTION OF THE AGENDA (Agenda item 1)	2	3
III. REGULATION No. 41 – (NOISE OF MOTORCYCLES) (Agenda item 2)	3-5	3
IV. REGULATION No. 51 - (NOISE OF M AND N CATEGORIES VEHICLES) (Agenda item 3)		
A. <u>Development</u> (Agenda item 3(a)).....	6	4
B. <u>New sound limit values</u> (Agenda item 3(b)).....	7-9	4
C. <u>Additional sound emission provisions</u> (ASEP) (Agenda item 3(c)).....	10	5

CONTENTS (continued)		<u>Paragraphs</u>	<u>Page</u>
V.	REGULATION No. 59 - (REPLACEMENT SILENCING SYSTEMS) (Agenda item 4)	11-14	5
VI.	REGULATION No. 117 - (TYRE ROLLING NOISE AND WET GRIP ADHESION (Agenda item 5).....	15	5
VII.	1998 AGREEMENT: NEW GTR ON NOISE (Agenda item 6).	16	6
VIII.	EXCHANGE OF INFORMATION ON NATIONAL AND INTERNATIONAL REQUIREMENTS ON NOISE LEVELS (Agenda item 7).....	17	6
IX.	INFLUENCE OF ROAD SURFACE ON TYRE ROLLING SOUND EMISSIONS (Agenda item 8).....	18-20	6
X.	NOISE ABATEMENT (Agenda item 9).....	21	6
XI.	ELECTION OF OFFICERS (Agenda item 10).....	22	7
XII.	OTHER BUSINESS (Agenda item 11)	23-24	7
XIII.	AGENDA FOR THE FORTY NINTH SESSION.....	25	7

Annexes

I.	List of informal documents distributed during the session (GRB-48-...)	8
II.	GRB informal groups.....	9

I. ATTENDANCE

1. The Working Party on Noise (GRB) held its forty-seventh session from 19 (afternoon) to 21 (morning) September 2007 in Geneva, under the chairmanship of Mr. Ch. Theis (Germany). 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): Belgium, Czech Republic; France; Germany; Hungary; India, Italy; Japan; Netherlands; Norway; Poland; Russian Federation; Slovakia; Spain; Sweden; Switzerland; Thailand, United States of America. An expert from the European Commission (EC) participated. Experts from the following non-governmental organizations also participated: International Organization for Standardization (ISO); International Organization of Motor Vehicle Manufacturers (OICA); European Association of Automobile Suppliers (CLEPA); International Motorcycle Manufacturers Association (IMMA); Specialty Equipment Market Association (SEMA) Upon the special invitation of the Chairman, experts from the non-governmental organization European Tyre and Rim Technical Organization (ETRTO) participated.

II. ADOPTION OF THE AGENDA (Agenda item 1)

2. GRB considered and adopted the agenda proposed for the forty-eighth session (ECE/TRANS/WP.29/GRB/2008/3). The informal documents distributed during the session are listed in Annex I to this report.

III. REGULATION No. 41 – NOISE OF MOTORCYCLES (Agenda item 2)

Documentation: Informal document No. GRB- 48-1

3. The Chairman of the informal group on noise of motorcycles informed GRB about the results of the eleventh meeting of the group on 2 and 3 July 2008 and twelfth meeting on 1 September 2008 (afternoon only), both held in Geneva. GRB took note of the outline of the proposals which would be made for the 04 series of amendments to Regulation No. 41 (document No. GRB-48-1). The proposal includes four modules: base type approval test, additional sound emission provisions, enforcement testing (road side checks, aligned with ISO 5130) and anti-tampering provisions. GRB noted that the additional sound emission provisions (ASEP) were still under discussion and would follow those of Regulation No. 51.

4. The expert from IMMA volunteered to submit a document indicating the agreements reached, identifying the pending questions. To prepare it, he requested that GRB experts send their comments in one month time. The document will be distributed with an official symbol for consideration by GRB at its next session. GRB should decide on the pending questions.

5. With regard to the stationary noise value and their marking on motorcycles, no clear preference was expressed by the experts. GRB noted that a database for type approval exchange of information (DETA), developed by the DETA informal group, would not be available before five or six years and that, in the meantime, a solution should be envisaged for making stationary noise values available. The experts from Germany and United States of America were in favour of this marking, the expert from Italy was against and the expert from France requested more time in order to define its position. It was recalled that this value was available in the type approval certificate.

IV. REGULATION No. 51 - NOISE OF M AND N CATEGORIES OF VEHICLES (Agenda item 3)

A. Development (Agenda item 3(a))

Documentation: ECE/TRANS/WP.29/GRB/2008/4

6. Document ECE/TRANS/WP.29/GRB/2008/4 was withdrawn by CLEPA. No new information was received on this item. GRB agreed to keep this item in the agenda for the next session.

B. New sound limit values (Agenda item 3(b))

7. The expert from the European Commission (EC) presented a short overview of the monitoring process, confirming that 221 datasets were received so far (78 from France, 57 from Germany, 27 from the Netherlands, 22 from Czech Republic, 19 from the United Kingdom, 13 from Belgium, 4 from Italy and 1 from Japan). He explained that a consultant would prepare a draft procedure for the further data processing. He mentioned that it was not yet decided how many data for each category of vehicle is considered acceptable before deciding to stop the monitoring process.

8. At the request of some experts, the expert from EC offered to send the dataset already collected, only to the Contracting Parties to the 1958 Agreement upon request (wolfgang.schneider@ec.europa.eu). He stressed that these dataset would only be transmitted to other Contracting Parties after conclusion of the data processing. The expert from United States of America insisted that these data should be made available at least to all GRB experts.

9. With regard to the stationary test of the monitoring process, GRB made clear that the stationary test of the test method B (Annex 10) should be conducted with the stationary test reproduced in Annex 3 as updated by Supplement 6 to the 02 series of amendments to Regulation No. 51. The stationary test of Annex 10 shall be updated in the same manner before the introduction of the new limit values for method B.

C. Additional sound emission provisions (ASEP) (Agenda item 3(c))

Documentation: Informal document No. GRB-45-3

10. The Chairman of the informal group reported on the progress made during the eleventh meeting of the group from 11 to 13 June 2008, held in Tokyo (GRB-45-3). He informed that a new meeting would be held either in October or in November 2008. GRB agreed to examine whether the informal group on additional sound emission provisions (ASEP) should continue, based on the results of the informal group and the availability for a concrete proposal for the next session.

**V. REGULATION No. 59 – (REPLACEMENT SILENCING SYSTEMS)
(Agenda item 4)**

Documentation: ECE/TRANS/WP.29/GRB/2008/5, ECE/TRANS/WP.29/GRB/2008/5/Corr.1; informal document No. GRB-48-5

11. The expert from CLEPA presented document ECE/TRANS/WP.29/GRB/2008/5 and its Corr.1 for amendments to Regulation No. 59 needed because of the new measurement test method of Regulation No. 51. Further justification of the proposal was also presented by the expert (GRB-48-5). The GRB Chairman was of the opinion that once the proposal is adopted, it should be kept aside until the adoption of the new sound limits of Regulation No. 51.

12. GRB considered of the proposal in detail. The expert from CLEPA volunteered to update the proposal, taking into account the comments received, for consideration at the next session as a proposal for a new series of amendments. The Secretariat will collaborate with the expert in the drafting of the Transitional Provisions.

13. GRB welcomed the offer by the expert from IMMA to prepare similar amendments to Regulation No. 92 (Replacement exhaust silencing systems for motorcycles) in the light of the amendments proposed for Regulation No. 41.

14. The expert from Netherlands offered to transmit a proposal in order to harmonize definitions between Regulation Nos. 41, 51 and 59.

VI. REGULATION No. 117 - TYRE ROLLING NOISE AND WET GRIP ADHESION (Agenda item 5)

Documentation: ECE/TRANS/WP.29/GRB/2008/2

15. GRB considered and adopted the amendment to the scope of Regulation No. 117 (paragraphs 1. and 1.1. of document ECE/TRANS/WP.29/GRB/2008/2; other paragraphs were already adopted by WP.29 at their July 2008 session, see document ECE/TRANS/WP.29/2008/68). It will be submitted to WP.29 and AC.1 at their March 2009 sessions as proposal for Corrigendum 3 to the 01 series of amendments to Regulation No. 117.

**VII. 1998 AGREEMENT: ELABORATION OF A NEW GTR ON NOISE
(Agenda item 6)**

16. GRB agreed to suspend its consideration of a new gtr on passenger vehicle noise pending the establishment of new limit values in Regulation No. 51. Concerning the limit values, the expert from United States of America reminded that these values should be established in the gtr after a careful cost/benefit analysis. He also expressed a preference for the development of three distinct gtrs: one for passenger vehicles, one for heavy duty vehicles and, finally, another one on motorcycle noise. The GRB Chairman announced his intention to inform AC.3 about these matters.

**VIII. EXCHANGE OF INFORMATION ON NATIONAL AND INTERNATIONAL
REQUIREMENTS ON NOISE LEVELS (Agenda item 7)**

Documentation: Informal documents Nos. GRB-48-2 and GRB-48-6

17. GRB followed with interest a presentation by the expert from Japan (GRB-48-2), regarding their national legislation about the replacement of silencing systems in vehicles, and also a presentation by the expert from the Netherlands (GRB-48-6) with regard to the rolling and propulsion noise of vehicles.

**IX. INFLUENCE OF ROAD SURFACE ON TYRE ROLLING SOUND EMISSIONS
(Agenda item 8)**

Documentation: Informal document No. GRB-48-7

18. GRB followed with interest a presentation by the expert from the Netherlands (GRB-48-7) regarding an hybrid tyre/road noise model. GRB experts reconfirmed that tyre noise levels depend significantly on the status of the track.

19. The expert from Switzerland presented a study conducted by his Government on tyre/road noise and the pavement texture. The study took place in urban areas with a speed limit of 50 km/h and it is available on <www.environnement-suisse.ch/DIV-6002-F>.

20. GRB agreed to keep this subject in the agenda for the next session, although this matter is not in the mandate of GRB.

X. NOISE ABATEMENT (Agenda item 9)

21. Given the absence of any information on this item, GRB agreed to remove it from the agenda for future sessions.

XI. ELECTION OF OFFICERS (Agenda item 10)

22. In compliance with Rule 37 of the Rules of Procedure (TRANS/WP.29/690), GRB called the election of officers on 2 September 2008 afternoon. The representatives of the Contracting Parties, present and voting, unanimously re-elected Mr. Ch. Theis (Germany) as Chairman for the GRB sessions scheduled for the year 2009.

XII. OTHER BUSINESS (Agenda item 11)

Documentation: Informal document No. GRB-48-4

23. GRB followed with interest a presentation (GRB-48-4) by the expert from the Netherlands regarding the effects of noise health and well being.

24. The expert from ISO informed GRB on the ongoing work in the United States on noise emissions of vehicles in relation with pedestrian safety. He explained that an evaluation of the issue was presently being conducted by the Society of Automotive Engineers (SAE) which included an investigation into possible minimum noise test procedures. In parallel, the US National Highway Traffic Safety Administration (NHTSA) is preparing a research program in order to define the need of requesting a minimum noise level. An SAE report will be concluded by the end of 2008. The expert from ISO offered to inform GRB about the conclusions of the SAE report at its next session.

XIII. AGENDA FOR THE FORTY-NINTH SESSION

25. The following provisional agenda was adopted for the forty-ninth session of GRB, scheduled to be held in Geneva from 16 (starting at 14.30h) to 18 (concluding at 17.30h) February 2009:

1. Adoption of the agenda
2. Regulation No. 41 – (Noise of motorcycles): Development
3. Regulation No. 51 – (Noise of M and N categories of vehicles)
 - (a) Development
 - (b) New limit values
 - (c) Additional sound emission provisions (ASEP)
4. Regulation No. 59 – (Replacement silencing systems)
5. Regulation No. 92 – (Replacement exhaust silencing systems (RESS) for motorcycles)
6. 1998 Agreement: Exchange of views on the development of a new gtr on noise */
7. Exchange of information on national and international requirements on noise levels
8. Influence of road surface on tyre rolling sound emissions
9. Other business

*/ This agenda item will be removed from the agenda if AC.3 decides not to continue the exchange of views on this matter.

Annex I

LIST OF INFORMAL DOCUMENTS DISTRIBUTED DURING THE SESSION (GRB-48-...)

No.	Transmitted by	Agenda item	Language	Title	Follow-up
1.	Regulation No. 41 Informal Group on	2.	E	Proposal for draft amendments to Regulation No. 41.	(a)
2.	JASIC	7.	E	Partial amendment to The Announcement that Prescribes Details of Safety Regulations for Road Vehicles.	(a)
3.	ASEP Informal Group	3(c).	E	Report GRB ad hoc Working Group in Additional Sound Emission Provisions.	(a)
4.	Netherlands	11.	E	The Relation between Targets for Noise Emission and Public Health.	(a)
5.	CLEPA	4.	E	CLEPA presentations supporting justification of formal document ECE-TRANS-WP29-GRB-2008-05	(a)
6.	Netherlands	7.	E	Road source model	(a)
7.	Netherlands	8.	E	Development of the SPERoN hybrid tyre/road noise model: Test track section	(a)

Note:

Follow-up (a) = Consideration completed or to be superseded.

Annex II

GRB INFORMAL GROUPS

<u>Informal group</u>	<u>Chairman</u>	<u>Secretary</u>
Motorcycle noise emissions (Regulation No. 41)	Mr. A. Erario (Italy) Tel: +39 06 4158 6228 Fax: +39 06 4158 3253 E-mail: antonio.erario@ infrastrutturetrasporti.it	Mr. P. Chesnel (IMMA) Tel: +41 22 920 2120 Fax: +41 22 920 2121 E-mail: pchesnel@ immamotorcycles.org
Additional sound emission provisions (ASEP)	Mr. B. Kortbeek (Netherlands) Tel: +31 70 339 4526 Fax: +31 70 339 1280 E-mail: boudewijn.kortbeek@ minvrom.nl	Mr. H.P. Bietenbeck (OICA) Tel.: +49 221 90 32 409 Fax : +49 221 90 32 546 E-mail: hbietenb@ford.com
