


Inspection report regarding the tyre/road noise emission of a tyre in accordance with the Council Directive, Annex V to Directive 92/23/EEC, as last amended by Directive 2005/11/EC and ECE Regulation no. 117.

Part1-Report

1. Type approval authority or Technical Service : RDW
2. Name and address of applicant : Hankook Tire China Regional Headquarters
3F, Xingyuan building, 410 Guiping Road,
200233, Shanghai, China
3. Test report No. : K055-A0-0508-0766
4. Manufacturer and Brand Name or Trade description : KINGSTAR K106, HANKOOK K106,
ROTEX K106
5. Tyre Class (C1, C2 or C3) : C1
6. Category of use : normal
7. Sound level according to paras. 4.4. and 4.5. of Annex 3 of : 70 dB(A) / 80 km/h
ECE R 117 and paras. 4.4. and 4.5. of Annex V appendix1
of the Directive 92/23 EC at reference speed of 70 or
80km/h
8. Tyre/Road Noise level according to paras. 6.1.1. through : Limit value expressed in dB(A) according to
paras 6.1.3. of ECE R 117 and paras.4.2.1 through 4.2.3 of Regulation & Directive :
Annex V of the Directive 92/23 EC at reference speed of **C1 category ;**
70 or 80km/h (strike out what does not apply) **** 145 and lower 72 dB(A), over 145 up to 165 73 dB(A),
over 165 up to 185 74 dB(A), over 185 up
to 215 75 dB(A), over 215 76 dB(A) * C1a 71(72) dB(A),
C1b 72(73) dB(A), C1c 73(74) dB(A),
C1d 75 dB(A), C1e 76 dB(A)
XL/+ 1 dB(A) & Special/+ 2dB(A)
* () means for 92/23/EEC ** () means for ECE R117
C2 category ;
Normal 75 dB(A), Snow 77 dB(A), Special 78 dB(A)
C3 category ;
Normal 76 dB(A), Snow 78 dB(A), Special 79 dB(A)**
9. Comments (if any) : The actual test of the tyre was not required and results
of the previous tests are still valid.
10. Date of test report : July 29, 2008
11. Signature :



Part2-Test data

- 1. Date of test: : June 17, 2008
- 2. Test vehicle (Make, model, year, modifications, etc.) : AUDI A8 3.7 Quattro
VIN : WAUZZZ4E25N005389/2005
- 2.1. Test vehicle wheelbase : 2944 mm
- 3. Location of test track : GTRACK
#433 Myungam-ri, Jewon-Myun, Geumsan-gun, Chungnam, 312-824, Korea
- 3.1 Date of track certification to ISO 10844:1994 : April 13, 2007
- 3.2. Issued by : RDW TCL/DB/2003-1, K038-A1-0306-0208
- 3.3. Method of certification : Residual void content, Sound absorption coefficient, Texture depth
- 4. Tyre test details
- 4.1. Tyre size designation/DOT Number : 265/35R18 / 1408
- 4.2. Tyre service description : ~~Standard~~ / Reinforced
- Load Index : 97
- Speed Category : W
- 4.3. Reference inflation pressure : 290 kPa
- 4.4. Test data

	Front left	Front right	Rear left	Rear right
Test mass (kg)	568	568	487	487
Tyre load index (%)	77.8	77.8	66.7	66.7
Inflation pressure (cold)(kPa)	230	230	190	190

- 4.5. Test rim width code : 9.5J x 18
- 4.6. Temperature measurement sensor type : Digital Thermometer(KESTREL K2000)

5. Valid test results

Run No.	Speed km/h	Direction of run	Sound level left 2/ measured dB(A)	Sound level right 2/ measured dB(A)	Air temp. C	Track temp. C	Sound level left 2/ temp.corrected dB(A)	Sound level right 2/ temp.corrected dB(A)	Comments
1	70.13	North-South	69.43	70.27	23.5	34	69.9	70.7	-
2	72.26	North-South	69.71	70.89	24.7	34	70.1	71.3	-
3	73.95	North-South	69.8	70.92	24.5	34	70.2	71.3	-
4	76.99	North-South	70.94	72.14	23	35	71.4	72.6	-
5	81.53	North-South	71.23	72.43	27	37	71.7	72.9	-
6	83.33	North-South	71.95	72.86	24.7	34	72.4	73.3	-
7	85.28	North-South	71.94	73.22	26.7	37	72.5	73.7	-
8	86.98	North-South	72.94	73.55	23.5	35	73.4	74.0	-

5.1. Regression line slope : a = 47.43

5.2. Sound level after temperature correction-according to para.4.3 of Annex 3 of ECE R117 and para. 4.3 of Annex V appendix 1 of the Directive 92/23 : 71.20 dB(A)

5.3. The final result of sound level according to para.4.4. of annex 3 of ECE R117 and para. 4.4 of Annex V appendix 1 of the Directive 92/23 : 70 dB(A)

List of modifications

Correction of : - --

Modification of : - --

Addition of : - --

Deletion of : - --



RDW

THE NETHERLANDS
(N E D E R L A N D)



COMMUNICATION

Concerning ⁽¹⁾:

- approval granted
- ~~approval extended~~
- ~~approval refused~~
- ~~approval withdrawn~~
- ~~production definitely discontinued~~

of a type of tyre with regard to rolling sound emission level pursuant to Regulation number 117.

Approval number: E4-117R-000483

Extension number: 00

Approval mark:



000483 S

1. Manufacturer's name and address(es) : Hankook Tire China Regional Headquarters
3F, Xingyuan building, 410 Guiping Road,
200233, Shanghai, China
2. If applicable, name and address of
manufacturer's representative : not applicable
3. "Tyre class" and "category of use" of the
type of tyre : C1 / normal
4. Brand(s) name(s) and/or Trade
description(s) of the type of tyre : KINGSTAR K106, HANKOOK K106,
ROTEX K106
5. Technical service and, where appropriate,
test laboratory approved for purposes of
approval or of verification of conformity
tests : TÜV NORD Mobilität GmbH & Co. KG
Institut für Fahrzeugtechnik und Mobilität
Adlerstrasse 7, D-45307 Essen
6. Sound level of the representative tyre size, see Paragraph 2.5. of Regulation number 117, as per item
7. of the test report: 70 dB(A) at reference speed of ~~70~~/80 km/h ⁽¹⁾.
7. Number of report issued by that service : K055-A0-0508-0766
8. Date of report issued by that service : July 29, 2008
9. Reason(s) of extension (if applicable) : not applicable

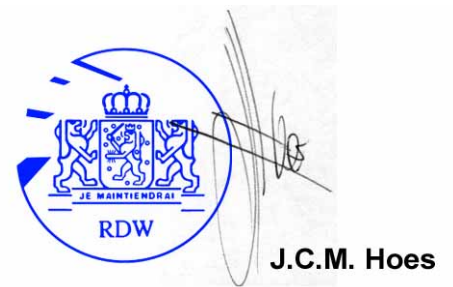


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Vehicle Approval and Information

10. Any remarks :
11. Place : Zoetermeer
12. Date : 06-AUG-2008
13. Signature :



14. Annexed to this communication are: Information folder no; JPQA-07A1001
- 14.1. A list of documents in the approval file deposited at the Administration services having delivered the approval and which can be obtained upon request.
- 14.2. A list of tread-pattern designations: Specify for each trademark or brand name and trade description the list of tyre size designations adding, in the case of Class C1 tyres, the mark "Reinforced" or "Extra Load", if applicable.

⁽¹⁾ Strike out what does not apply.



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Date: JUN . 02, 2008

**INFORMATION DOCUMENT No. JPQA-07A1001 RELATING TO EC TYPE APPROVAL FOR A TYPE
OF TYRE RELATING TO TYRE/ROAD NOISE EMISSION
(Annex V to Directive 2005/11/EC & Regulation. 117)**

1. GENERAL

- 1.1 Manufacturer's name : Hankook Tire China Regional Headquarters
(Hankook Tire China Co.,Ltd. Shanghai Office)
- 1.2 Name and address of applicant : Hankook Tire China Regional Headquarters
(Hankook Tire China Co.,Ltd. Shanghai Office)
3F,Xingyuan building
410 Guiping Road 200233,Shanghai,China
- 1.3 Address(es) of manufacturing plant(s) : Plant 1
JIANGSU HANKOOK TIRE CO.,LTD.
1# South Hantai Road ,Huai'an Economic
Development Zone,223002,Jiangsu Province,
China
Plant 2
HANKOOK TIRE CHINA CO.,LTD.
Dongfang Road, Jiaxing Economic Development
Zone, zhejiang province, China
- 1.4 Brand name(s), Trade description(s) or Trade mark(s) : KINGSTAR / HANKOOK / ROTEX

2. TYRES

- 2.1 Tyre classification (class C1, C2 or C3) : Class C1
- 2.2 Category of use (normal, snow or temporary use) : normal
- 2.3 Details of the major features, with respect to the effects : K106 – see Drawing No.200805-PBN-K106
on tyre/road noise emission, of the tread pattern(s) to
be used on the designated range of tyre sizes. This
may be by drawing, photograph or description but must
be sufficient to allow the type approval authority or
technical service to determine whether any subsequent
changes to the major features will adversely affect the
tyre/road noise emission
- 2.3 Tyre structure (Bias, Bias-belted or Radial) : Radial
- 2.5 List of tread-pattern designations : see the attached tyre type list



Yoo Yun Soon

YOO YUN SOON (Team Manager)
Quality Assurance Team
Hankook Tire China Regional Headquarters
(Hankook Tire China Co.,Ltd. Shanghai Office)

Pattern of Tires

K106

NO.	Class	Size	LI/SS	Limit (dB)	
1	C1	185/55R14	80H	74	
2		185/55R15	82V		
3		195/45R15	78V	75	
4		195/50R15	82H		
5		195/50R15	82V		
6		195/55R15	85V		
7		195/60R15	88V		
8		195/65R15	91V		
9		205/40R17	80H		
10		205/50R15	86V		
11		205/50R16	87V		
12		205/55R15	88V		
13		205/55R16	91V		
14		205/60R15	91V		
15		205/65R15	94V		
16		215/35R18	80H		76
17		215/45R17	87H		
18		215/45R17	87W		
19		215/50R17	91H		
20		215/50R17	91W		
21		215/55R16	93V		
22		205/40R17 XL	84W		
23		205/45R16 XL	87V		
24		205/45R16 XL	87W		
25		205/55ZR16 XL	94W		
26		215/40R16 XL	86W	76	
27		215/40R17 XL	87W		
28		225/40R18	88H		
29		225/45R17	91H		
30		225/45R17	91W		
31		225/50R16	92V		
32		225/55R16	95V		
33		225/55R16	95W		



NO.	Class	Size	LI/SS	Limit (dB)
34	C1	225/60R15	96V	76
35		225/60R15	96W	
36		235/40R17	90W	
37		245/45R17	95W	
38		255/40R17	94W	
39		225/35R18 XL	87W	
40		225/40R18 XL	92W	
41		235/40R18 XL	95W	
42		235/45R17 XL	97W	
43		245/40R18 XL	97W	
44		255/35R18 XL	94W	
45		265/35R18 XL	97W	

Test Size : 265/35R18 97 XL

Reason of choice : Widest
Lowest aspect ratio
Biggest rim size



Drawing No.: 200805-PBN-K106

Date : 2008-5-6

Drawing of the tread pattern (Mesured tire)

Manufacure's name	HanKOOK Tire China Regional Headquarters (HanKOOK Tire China Co., Ltd. Shanghai office)
Pattern name	K106
Tire size	265/35R18 97W XL
Max. Load	730Kg
Pitch number	51
Pitch ratio (Max./Min.)	1.29
Groove area ratio (%)	33.77%
Width : main grooves (mm)	-
Depth : center grooves (mm)	-
Depth : shoulder grooves (mm)	-
Pattern	