

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- ~~approval withdrawn~~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' and/or 'adhesion performance on wet surfaces' and/or 'rolling resistance' pursuant to Regulation number 117.

Approval number: E4-117R-029173 S2WR2

Extension number: 01

1. Manufacturer's name and address : Shandong Huasheng Rubber Co., Ltd.
Daozhuang Industry Zone;
Guangrao County; Dongying City;
Shandong Province 257336 ; P.R. 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 : ~~Class C1 / Class C2 / Class C3~~
normal / ~~snow / snow tyre for use in severe snow conditions / special~~
- 3.1. Snow tyre for use in severe snow conditions : ~~yes~~/no ⁽¹⁾
- 3.2. Traction tyre : ~~yes~~/no ⁽¹⁾
4. Tyre type designation

- 4.1. Brand name(s)/trademark(s) of the type of tyre
AENEAS;FULUTONG;FURUITONG;HABILE AD;HONGTU;HUASHENG;HUMSUNG;JINJI;JINXIN;KAPSEN;ROADBOSS;TAITONG;TER RAKING;TYSONKING;UNITED;DAILYWAY ;DOUBLE ROAD;DOLLUP;MESHILINE; TANZA;TOYOMOTO;TOURTRACK;ORNET; VIZZONI;XCEED;TEXXAN;MILEWAY;ROO GOO;KETER;ZEETEX;TOLEDO;CARGO FORCE;ALTAIRE;
PARAGON;PASSION;BLACKSTONE;ROADS ONIC;MACROSUN;TUDOR;BAOLITE;TRUCKPRO;NAMA;DONLLUP;GIACCI;ECEED;RADAR;FIRELION
- 4.2. Trade description(s)/ Commercial name(s) of the type of tyre
HS205;XD286;UT555;DR818;MH3000;TRANS 205;PILOT RS2;VZ616Z;RG205;KTHS5; ZSH10 vfm;DR109;CSL612;TX104;OR286; AP202;TP245;PILOT RS2;NF19;GA205;H5100; FS05;M518
5. Technical service and, where applicable, test laboratory approved for purposes of approval or of verification of conformity tests
: TÜV Rheinland Kraftfahrt GmbH
Technologiezentrum Verkehrssicherheit
Typprüfstelle Fahrzeuge/Fahrzeugteile
Am Grauen Stein
D-51105 Köln (Poll)
6. Performance(s) approved
: sound level at (stage 1/stage 2)⁽¹⁾, ~~wet adhesion level~~, rolling resistance level (stage 1/stage 2)⁽¹⁾ ~~and snow performance level~~
- 6.1. Sound level of the representative tyre size, see Paragraph 2.5. of Regulation number 117, as per item 7. of the test report in appendix to Annex 3, at reference speed of 70/80 km/h⁽¹⁾.
: 295/75R22.5 146/143L: 71 dB(A)
- 6.2. Wet adhesion level of the representative tyre size, see Paragraph 2.5. of Regulation number 117, as per item 7. of the test report in the appendix to Annex 5 using the vehicle ~~or trailer method~~⁽⁴⁾.
: 295/75R22.5 146/143L: 1.15
- 6.3. Rolling resistance level of the representative tyre size, see Paragraph 2.5. of Regulation number 117, as per item 7. of the test report in the appendix to Annex 6⁽²⁾.
: 215/75R17.5 135/133J: 5.81 N/KN

- 6.4. Snow grip level of the representative : --- :
tyre size, see paragraph 2.5. of
Regulation No. 117, as per item 7. of
the test report in the appendix (2) to
Annex 7 using the brake on snow
method (1), spin traction method (1) or
acceleration method (1).
7. Number of report issued by that service : 86-R117-2623/18-00
8. Date of report issued by that service : July 13, 2018
9. Reason(s) of extension (if applicable) : Addition of trade mark and tread pattern
10. Any remarks : ---
11. Place : Zoetermeer
12. Date : 16-AUG-2018
13. Signature :
14. Annexed to this communication are: HS205 - SWR - 01
- 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⁽³⁾.
- 14.2. A list of tyre size designations: Specify for each brand name/trademark and/or each trade description/ Commercial name the list of tyre size designations, adding in case of Class C1 tyres the mark 'reinforced' (or 'extra load') or the speed symbol of snow tyres or in the case of tyres of Classes C2 and C3, the mark 'traction', if so required by paragraph 3.1. of this Regulation.

⁽¹⁾ Strike out what does not apply.

⁽²⁾ Appendix 2 for C1 and C2 tyres.

Appendix 3 for C3 tyres.

⁽³⁾ In the case of 'snow tyre for use in severe snow conditions' a test report according to Appendix 2 of Annex 7 shall be submitted.

Manufacturer:

Shandong Huasheng Rubber Co.,Ltd

Information folder:

HS205-SWR-01

RELATING TO ECE TYPE-APPROVAL EXTENSION FOR A TYPE OF TYRE WITH REGARD TO ROLLING SOUND EMISSIONS AND TO ADHESION PERFORMANCE ON WET SURFACES AND/OR TO ROLLING RESISTANCE (ECE Regulation No. 117. 02, Supplement 9)

1. GENERAL

- 1.1. The performance characteristics to be assessed for the tyre type : rolling sound emission level and adhesion performance level on wet surfaces and rolling resistance
- 1.2. Manufacturer's name : Shandong Huasheng Rubber Co.,Ltd.
- 1.3. Name and address of applicant : Shandong Huasheng Rubber Co.,Ltd.
Daozhuang Industry Zone,Guangrao County
Dongying City,Shandong Province
257336
China(PROC)
- 1.4. Address(es) of manufacturing plant(s) : same with the applicant
- 1.5. Brand name(s)/trademark(s) and Trade description(s)/ Commercial name(s) of the type of tyre : (trade mark)AENEAS;FULUTONG;FURUITONG; HABLEAD;HONGTU;HUASHENG;HUMSUNG; JINJI;JINXIN;KAPSEN;ROADBOSS;TAITONG; TERRAKING;TYSONKING;UNITED;DAILYWAY; DOUBLE ROAD;DOLLUP;MESHILINE;TANZA; TOYOMOTO;TOURTRACK;ORNET;VIZZONI; XCEED;TEXXAN;MILEWAY;ROOGOO;KETER; ZEETEX;TOLEDO;CARGOFORCE;ALTAIRE; PARAGON;PASSION;BLACKSTONE; ROADSONIC;MACROSUN;TUDOR;BAOLITE; TRUCKPRO;NAMA;DONLLUP;GIACCI;ECEED; RADAR;FIRELION;
(tread pattern)HS205;XD286;UT555;DR818; MH3000;TRANS205;PILOT RS2;VZ616Z;RG205; KTHS5;ZSH10 vfm;DR109;CSL612;TX104;OR286; AP202;TP245;PILOTRS2;NF19;GA205;H5100; FS05;M518
2. Tyre
- 2.1. Tyre classification (class C1, C2, C3) : ~~Class C1 / Class C2~~ / Class C3
- 2.2. Section width range for class C3 tyres : see attached "list of tyre size"
- 2.3. Tyre structure : ~~diagonal / bias belted~~ / radial / ~~run flat~~ tyre
- 2.4. For Class C3 tyres, state weather :
- 2.4.1. Reinforced (or extra load) in case of approval with regarding to rolling sound emission level : see attached "list of tyre size"
- 2.4.2. Speed category symbol "Q" or below (not including "H") or "R" and above (including "H") in case of snow tyres for approval with regarding to adhesion on wet surfaces : not applicable
- 2.5. For Class C2 or C3 tyres, state weather "Traction tyre" : ~~Yes~~ / No

Manufacturer:

Shandong Huasheng Rubber Co.,Ltd

Information folder:

HS205-SWR-01

-
- | | | | |
|-------|--|---|--|
| 2.6. | Category of use (normal, snow, special) | : | normal/ snow (snow tyre for use in severe snow conditions) /special |
| 2.7. | A list of tyre designations covered by this application | : | see attached "list of tyre size" |
| 2.8. | Details of major features, with respect to the effects on tyre performance (i.e. rolling emission level or adhesion on wet surfaces, respectively) of the tread pattern(s) to be used on the designated range of tyre sizes. | : | see attached "drawing of tread pattern" |
| 2.9. | In the case of "special use tyre", drawing of the tread pattern supplied in order to verify the void-to-fill ratio. | : | not applicable |
| 2.10. | Submitted for approval on (date) | : | June 28, 2018 |

MANUFACTURER'S STAMP

Signature: _____
Name: LIUJIANQUN



THIS APPLICATION IS ACCOMPANIED BY:

- List of tyre size
- Drawing of tread pattern
- The test report

Manufacturer:

Shandong Huasheng Rubber Co.,Ltd

Information folder:

HS205-SWR-01

List of tyre size

Tyre size	Approval No.	Limit for rolling sound dB(A) of Stage II	Limit for wet grip index	Limit for rolling resistance coefficient N/KN of Stage II
235/75R17.5 132/130M	E4-54R-0034852	73	0.8	6.5
HUASHENG;JINXIN;TAITONG;HONGTU;KAPSEN;HUMSUNG;TERRAKING;JINJI;DOUBLE ROAD; MESHILINE;AENEAS;TOURTRACK;TOLEDO;CARGOFORCE;ALTAIRE;FULUTONG;FURUITONG; HABILEAD;ROADBOSS;TYSONKING;TEXXAN;VIZZONI(trade mark) HS205;DR818;MH3000;TP245;PILOTRS2;NF19;GA205;H5100;DR109;AP202;CSL612;PILOT RS2;OR286;XD286; TX104;ZSH10 vfm(tread pattern)				
255/70R22.5 140/137M	E4-54R-0034853	73	0.8	6.5
HUASHENG;JINXIN;TAITONG;HONGTU;KAPSEN;HUMSUNG;TERRAKING;JINJI;DOUBLE ROAD; MESHILINE;AENEAS;TOURTRACK;TOLEDO;CARGOFORCE;ALTAIRE;FULUTONG;FURUITONG; HABILEAD;ROADBOSS;TYSONKING;TEXXAN;VIZZONI(trade mark) HS205;DR818;MH3000;TP245;PILOTRS2;NF19;GA205;H5100;DR109;AP202;CSL612;PILOT RS2;OR286;XD286; TX104;ZSH10 vfm;VZ616Z(tread pattern)				
265/70R19.5 140/138M	E4-54R-0034854	73	0.8	6.5
HUASHENG;JINXIN;TAITONG;HONGTU;KAPSEN;HUMSUNG;TERRAKING;JINJI;DOUBLE ROAD; MESHILINE;AENEAS;TOURTRACK;TOLEDO;CARGOFORCE;ALTAIRE;FULUTONG;FURUITONG; HABILEAD;ROADBOSS;TYSONKING;TEXXAN;VIZZONI(trade mark) HS205;DR818;MH3000;TP245;PILOTRS2;NF19;GA205;H5100;DR109;AP202;CSL612;PILOT RS2;OR286;XD286; TX104;ZSH10 vfm(tread pattern)				
275/70R22.5 148/145M	E4-54R-0034408	73	0.8	6.5
HUASHENG;JINXIN;TAITONG;HONGTU;KAPSEN;HUMSUNG;TERRAKING;JINJI;DOUBLE ROAD; MESHILINE;AENEAS;TOURTRACK;TOLEDO;CARGOFORCE;ALTAIRE;FULUTONG;FURUITONG; HABILEAD;ROADBOSS;TYSONKING;TEXXAN;VIZZONI(trade mark) HS205;DR818;MH3000;TP245;PILOTRS2;NF19;GA205;H5100;DR109;AP202;CSL612;PILOT RS2;OR286;XD286; TX104;ZSH10 vfm(tread pattern)				
285/75R24.5 147/144L	E4-54R-0034855	73	0.8	6.5
HUASHENG;JINXIN;TAITONG;HONGTU;KAPSEN;HUMSUNG;TERRAKING;JINJI;DOUBLE ROAD; MESHILINE;AENEAS;TOURTRACK;TOLEDO;CARGOFORCE;ALTAIRE;FULUTONG;FURUITONG; HABILEAD;ROADBOSS;TYSONKING;TEXXAN;VIZZONI(trade mark) HS205;DR818;MH3000;TP245;PILOTRS2;NF19;GA205;H5100;DR109;CSL612;AP202;PILOT RS2;OR286;XD286; TX104;ZSH10 vfm(tread pattern)				
295/75R22.5 146/143L	E4-54R-0034857	73	0.8	6.5
HUASHENG;JINXIN;TAITONG;HONGTU;KAPSEN;HUMSUNG;TERRAKING;JINJI;DOUBLE ROAD; MESHILINE;AENEAS;TOURTRACK;KETTER;TOLEDO;CARGOFORCE;FULUTONG;FURUITONG; HABILEAD;ROADBOSS;TYSONKING;TEXXAN;VIZZONI(trade mark) HS205;DR818;MH3000;TP245;PILOTRS2;NF19;GA205;H5100;KTHS5;DR109;CSL612;UT555;PILOT RS2;OR286; XD286;TX104;ZSH10 vfm;VZ616Z(tread pattern)				
11R22.5 146/143M	E4-54R-0022488	73	0.8	6.5
HUASHENG;JINXIN;TAITONG;HONGTU;KAPSEN;XCEED;ORNET;UNITED;TANZA;TOYOMOTO;HUMSUNG; TERRAKING;JINJI;DOUBLE ROAD;MESHILINE;AENEAS;TOURTRACK;KETTER;ZEETEX;MILEWAY;TOLEDO; CARGOFORCE;ALTAIRE;DAILYWAY;DOLLUP;ROOGOO;FULUTONG;FURUITONG;HABILEAD;ROADBOSS; TYSONKING;TEXXAN;VIZZONI(trade mark) HS205;DR818;MH3000;TP245;PILOTRS2;NF19;GA205;H5100;FS05;DR109;CSL612;AP202;TRANS205;PILOT RS2; OR286;XD286;TX104;ZSH10 vfm;RG205;VZ616Z(tread pattern)				
215/75R17.5 135/133J	E4-54R-0035049	73	0.8	6.5
HUASHENG;JINXIN;TAITONG;HONGTU;KAPSEN;HUMSUNG;TERRAKING;JINJI;MESHILINE;AENEAS;TOUR				

Manufacturer:

Shandong Huasheng Rubber Co.,Ltd

Information folder:

HS205-SWR-01

RACK;FULUTONG;FURUITONG;HABILEAD;ROADBOSS;TYSONKING;TEXXAN;VIZZONI;(trade mark)
HS205;DR818;MH3000;TP245;PILOTS2;NF19;GA205;H5100;PILOT RS2;OR286;XD286;TX104;ZSH10 vfm
(tread pattern)

215/75R17.5 126/124M E4-54R-0038028 73 0.8 6.5

HUASHENG;JINXIN;TAITONG;HONGTU;KAPSEN;PARAGON;PASSION;BLACKSTONE;ROADSONIC;
MACROSUN;TUDOR;HUMSUNG;TERRAKING;BAOLITE;JINJI;DOUBLEROAD;MESHILINE;TRUCKPRO;
AENEAS;TOURTRACK;NAMA;DONLLUP;GIACCI;FULUTONG;FURUITONG;HABILEAD;ROADBOSS;
TYSONKING;ZEETEX;TOLEDO;ALTAIRE;CARGOFORCE(trade mark)

HS205;DR818;MH3000;TP245;PILOTS2;NF19;GA205;H5100;ZSH10 vfm;DR109;AP202;CSL612(tread pattern)

11R24.5 149/146M E4-54R-0038027 73 0.8 6.5

HUASHENG;JINXIN;TAITONG;HONGTU;KAPSEN;HUMSUNG;TERRAKING;NAMA;JINJI; DOUBLE ROAD;
DONLLUP;MESHILINE;TRUCKPRO;AENEAS;TOURTRACK;GIACCI;ECEED;RADAR;FIRELION;MILEWAY;
TOLEDO;ALTAIRE;(trade mark)

HS205;DR818;MH3000;TP245;PILOTS2;NF19;GA205;H5100;XD286;FS05;DR109;AP202(tread pattern)

205/75R17.5 124/122M E4-54R-0038038 73 0.8 6.5

HUASHENG;JINXIN;TAITONG;HONGTU;KAPSEN;HUMSUNG;TERRAKING;JINJI;DOUBLEROAD;MESHILINE;
TRUCKPRO;AENEAS;TOURTRACK;NAMA;DONLLUP;GIACCI;TOLEDO;FULUTONG;FURUITONG;HABILEAD;
ROADBOSS;TYSONKING;(trade mark)

HS205;DR818;MH3000;TP245;PILOTS2;NF19;GA205;H5100;DR109;(tread pattern)

225/70R19.5 128/126M E4-54R-0038029 73 0.8 6.5

HUASHENG;JINXIN;TAITONG;HONGTU;KAPSEN;HUMSUNG;TERRAKING;JINJI;DOUBLEROAD;MESHILINE;
TRUCKPRO;AENEAS;TOURTRACK;NAMA;DONLLUP;GIACCI;TOLEDO;CARGOFORCE;FULUTONG;
FURUITONG;HABILEAD;ROADBOSS;TYSONKING(trade mark)

HS205;DR818;MH3000;TP245;PILOTS2;NF19;GA205;H5100;DR109;CSL612;(tread pattern)

245/70R19.5 136/134M E4-54R00-22-41273 73 0.8 6.5

KETER;DOUBLE ROAD;MILEWAY;ROOGOO;KAPSEN;TAITONG;TERRAKING;(trade mark)

HS205;KTHS5;DR818;M518;RG205;

Worst Case Selection

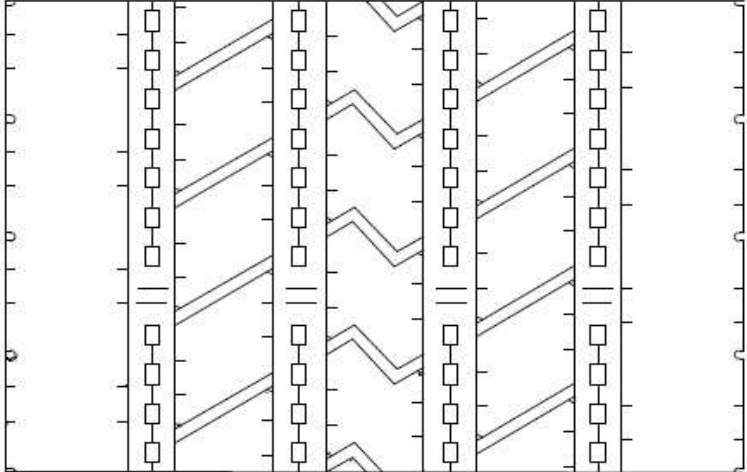
Test size for rolling sound	: 295/75R22.5 146/143L
Because of	: Widest
Test size for wet grip	: 235/75R17.5 132/130M
Because of	: The wet grip test result of 295/75R22.5 146/143L is G= 1.15, which is 110% above the limit value of ECE-R117(for normal use tyre, the 110% limit value is G=0.88)
Test size for rolling resistance	: 215/75R17.5 135/133J
Because of	: Tyre type other than worst case lowest load index Calculated limit value is $6.5-0.3-0.06 \text{ (135-132)} = 6.02$

Manufacturer:

Shandong Huasheng Rubber Co.,Ltd

Information folder:

HS205-SWR-01

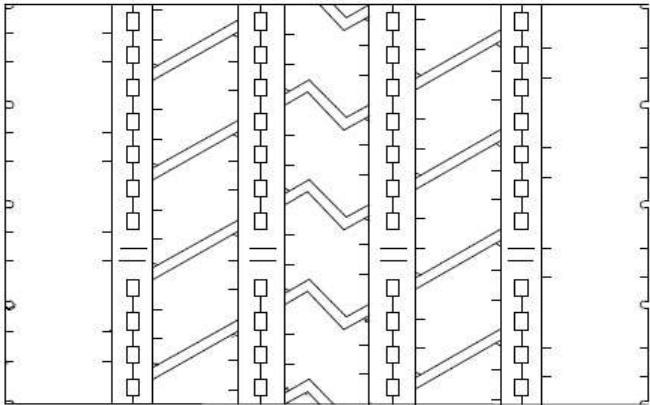
Drawing of the tread pattern (for measured tyre using for tyre noise, wet grip performance)		
Manufacturer name	:	Shandong Huasheng Rubber Co., Ltd.
Pattern name	:	HS205;XD286;UT555;DR818;MH3000;TRANS205;PILOT RS2; VZ616Z;RG205;KTHS5;ZSH10 vfm;DR109;CSL612;TX104;OR286; AP202;TP245;PILOT RS2;NF19;GA205;H5100;FS05; <u>M518</u>
Tyre Size	:	295/75R22.5 146/143L
Market	:	EU
Pitch number	:	88
Pitch ratio	:	1
Void volume [%]	:	69
Width: main grooves [mm]	:	13/15/15/13
Depth: center groove [mm]	:	14.5
Depth: shoulder groove [mm]	:	14.5
Tyre tread pattern	:	

Manufacturer:

Shandong Huasheng Rubber Co.,Ltd

Information folder:

HS205-SWR-01

Drawing of the tread pattern (for measured tyre using for tyre rolling resistance test)		
Manufacturer name	:	Shandong Huasheng Rubber Co., Ltd.
Pattern name	:	HS205;XD286;UT555;DR818;MH3000;TRANS205;PILOT RS2;VZ616Z;RG205;KTHS5;ZSH10 vfm;DR109;CSL612;TX104;OR286;AP202;TP245;PILOT RS2;NF19;GA205;H5100;FS05; <u>M518</u>
Tyre Size	:	235/75R17.5 132/130M
Market	:	EU
Pitch number	:	62
Pitch ratio	:	1
Void volume [%]	:	69.9
Width: main grooves [mm]	:	11/11/11/11
Depth: center groove [mm]	:	10
Depth: shoulder groove [mm]	:	10
Tyre mass [kg]	:	34.5
Tread depth [mm]	:	10
Tread width [mm]	:	234
Curvature radius of tread crown [mm]	:	400.5
Tyre outer diameter [mm]	:	801
Tread plies	:	5steel+1steel
Tyre tread pattern	:	

Manufacturer:

Shandong Huasheng Rubber Co.,Ltd

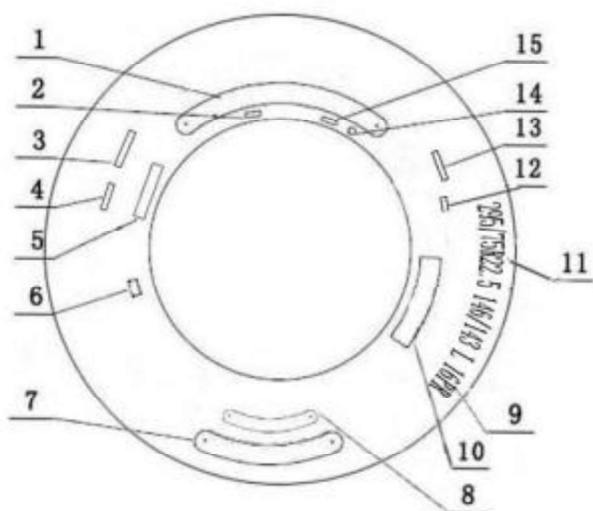
Information folder:

HS205-SWR-01

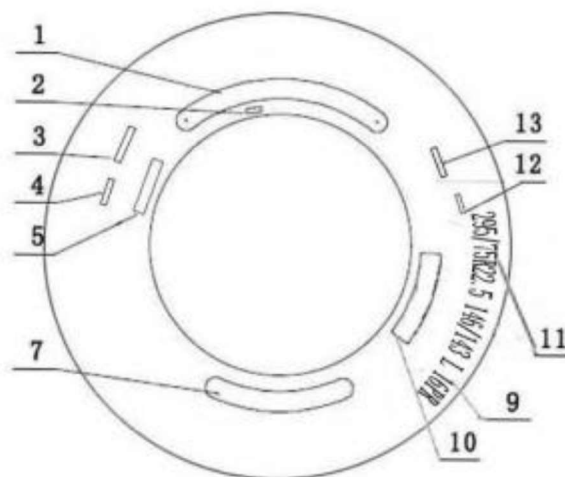
Drawing of the tyre sidewall

Tyre Size

: 295/75R22.5 146/143L



Upper mold



Lower mold

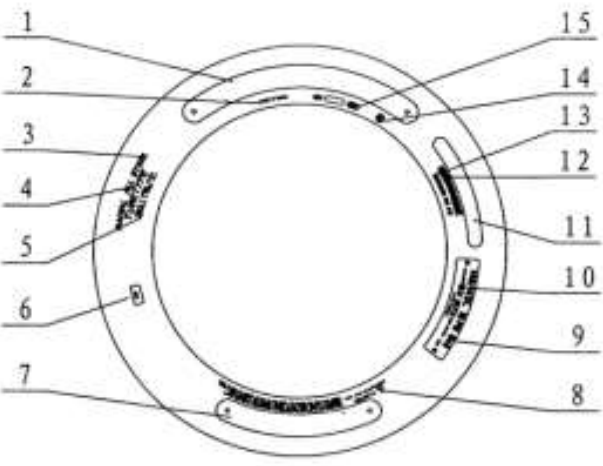
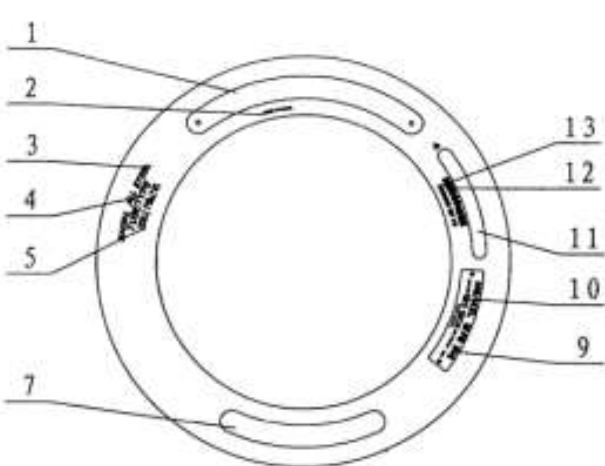
1.TRADE MARK	1. TRADE MARK
2.MADE IN CHINA	2.MADE IN CHINA
3.RADIAL ALL STEEL	3.RADIAL ALL STEEL
4.TUBELESS	4.TUBELESS
5.TREAD 5 STEEL PLIES SIDEWALL 1 STEEL PLY	5.TREAD 5 STEEL PLIES SIDEWALL 1 STEEL PLY
6.“CCC”	TREAD PATTERN
7.TREAD PATTERN	9.146/143L 16PR
8.SAFETY WARNING	10.MAX LOAD SINGLE6610LBs(3000KG) DUAL 6005LBs(2725KG) AT120PSI(830KPa)COLD LOAD RANGEH
9.146/143L 16PR	11.295/75R22.5
10.MAX LOAD SINGLE6610LBs(3000KG) DUAL 6005LBs(2725KG) AT120PSI(830KPa)COLD LOAD RANGEH	12.REGROOVABLE
11.295/75R22.5	13.STANDARD RIM 9.00
12.REGROOVABLE	
13.STANDARD RIM 9.00	
14.✖XXXXXX	
15.DATE CODE XXXX	

Manufacturer:

Shandong Huasheng Rubber Co.,Ltd

Information folder:

HS205-SWR-01

Drawing of the tyre sidewall	
Tyre Size : 215/75R17.5 135/133J	
	
Upper mold	Lower mold
1.TRADE MARK	1.TRADE MARK
2.MADE IN CHINA	2.MADE IN CHINA
3.RADIAL ALL STEEL	3.RADIAL ALL STEEL
4.TUBELESS	4.TUBELESS
5.TREAD 5 STEEL PLIES SIDEWALL 1 STEEL PLY	5.TREAD 5 STEEL PLIES SIDEWALL 1 STEEL PLY
6.“CCC”	7.TREAD PATTERN
7.TREAD PATTERN	9.132/130J 16PR
8.SAFETY WARNING	10.MAX LOAD SINGLE 4415LBs(2000KG) DUAL 4195LBs(1900KG) AT115PSI(775KPa)COLD LOAD RANGE
9.132/130M 16PR	11.235/75R17.5
10.MAX LOAD SINGLE 4415LBs(2000KG) DUAL 4195LBs(1900KG) AT115PSI(775KPa)COLD LOAD RANGE	12.REGROOVABLE
11.235/75R17.5	13.STANDARD RIM6.75
12.REGROOVABLE	
13.STANDARD RIM 6.75	
14.134XXXXXX	
15.DATE CODE XXXX	

Type : HS205;XD286;UT555;DR818;MH3000;TRA
NS205;PILOT RS2;VZ616Z;RG205;
KTHS5; ZSH10 vfm;DR109;CSL612;
TX104;OR286; AP202;TP245; PILOTRS2;
NF19;GA205;H5100;FS05;M518
Manufacturer : Shandong Huasheng Rubber Co., Ltd.

TEST REPORT

according to UN-Regulation

**Uniform Provisions concerning the Approval of Tyres with regard to Rolling Sound Emissions and to
Adhesion on Wet Surfaces and/or to Rolling Resistance**

UN Regulation No. 117

including all amendments until

Amend.02, Suppl. 09

Approval Status

UN approval : E4-117R-029173 S2WR2 Ext.00

Structure of report :

Item No.

0. General information

1. Tested ~~vehicle(s)~~/ object(s)

2. Tested record

3. List of appendices

4. Statement of conformity

The Test Report shall be reproduced and published in full by the client only. It shall however be reproduced partially with the written permission of the Testing Laboratory only.

Type : HS205;XD286;UT555;DR818;MH3000;TRA
 NS205;PILOT RS2;VZ616Z;RG205;
 KTHS5; ZSH10 vfm;DR109;CSL612;
 TX104;OR286; AP202;TP245; PILOTRS2;
 NF19;GA205;H5100;FS05;M518
Manufacturer : Shandong Huasheng Rubber Co., Ltd.

0. General information

- 0.1. Make (trade name of the manufacturer) : Shandong Huasheng Rubber Co., Ltd.
- 0.2. Type : HS205;XD286;UT555;DR818;MH3000;TRANS205;
PILOT RS2;VZ616Z;RG205;KTHS5; ZSH10 vfm;
DR109;CSL612; TX104;OR286; AP202;TP245;
PILOTRS2;NF19;GA205;H5100;FS05;
M518
- 0.3. Category of vehicle : Not applicable
- 0.4. Name and address of the manufacturer : Shandong Huasheng Rubber Co., Ltd.
Daozhuang Industry Zone;
Guangrao County;Dongying City;
Shandong Province 257336 ; P.R. China
- 0.5. No. of the information folder : HS205 - SWR - 01
 -Date of issue : ---
 -Date of last change : ---

1. Tested ~~vehicle(s)~~ / object(s)

- 1.1. Description
- 1.1.1. ~~Vehicle~~ / object
- Commercial description : Not applicable
- Type(s) / ~~variant(s)~~ / ~~version(s)~~ : HS205;XD286;UT555;DR818;MH3000;TRANS205;
PILOT RS2;VZ616Z;RG205;KTHS5; ZSH10 vfm;
DR109;CSL612; TX104;OR286; AP202;TP245;
PILOTRS2;NF19;GA205;H5100;FS05;
M518
- Identification number : See Appendix 1
- 1.1.2. Condition of ~~vehicle(s)~~ / Object(s) : New / ~~Used~~ / ~~Pretested~~
- 1.2. Worst case selection : The determination of the worst case was done according to internal procedures of the Technical Service (QMA 1.301.005, section 6.2.2.2.).
- 1.3. Remarks : All versions of the types as stated in the information folder are covered by the tested object(s) respectively.

Type : HS205;XD286;UT555;DR818;MH3000;TRA
NS205;PILOT RS2;VZ616Z;RG205;
KTHS5; ZSH10 vfm;DR109;CSL612;
TX104;OR286; AP202;TP245; PILOTRS2;
NF19;GA205;H5100;FS05;M518

Manufacturer : Shandong Huasheng Rubber Co., Ltd.

2. Tested record

- 2.1. Equipment for measuring and testing : The test facilities / measurement equipment used were in compliance with the test requirements.
- 2.1.1. Specifications for the test site : See Appendix 1
- 2.1.2. Subcontracting
- Tyre noise : Not applicable
 - Wet grip : Not applicable
 - Rolling resistance : Not applicable
 - Snow performance : Not applicable
- 2.2. Test results : See appendix 1
- ~~Numbering according to Paragraph 6. and 7. of the UNECE R117~~
- 2.2.1. Test results referring to measurements : Pass / ~~Fail~~
- 2.2.2. Attributive tests : Not applicable
- 2.2.3. Alternative test provisions : Not applicable
- Remarks concerning extension : ~~The type has been tested according to the modification(s) mentioned in appendix 0.~~
- ~~The new parts meet the requirements of the regulation.~~
- An actual practical test of the type was not necessary.
The results of the previous test(s) are still valid.
- 2.3. Additional information : The results of the test refer exclusively to the object(s) mentioned under point 1. of this report.
- Test site : See Appendix 1
- Test date : See Appendix 1
- 2.4. Remarks : Not applicable

Type : HS205;XD286;UT555;DR818;MH3000;TRA
NS205;PILOT RS2;VZ616Z;RG205;
KTHS5; ZSH10 vfm;DR109;CSL612;
TX104;OR286; AP202;TP245; PILOTRS2;
NF19;GA205;H5100;FS05;M518
Manufacturer : Shandong Huasheng Rubber Co., Ltd.

3. List of Appendices

Appendix 0 : List of modifications
Appendix 1 : Test minutes

4. Statement of conformity

The in point 0.5. mentioned information folder and the type described in that comply with the requirements mentioned on page 1.

With regard to the required level of performance to be achieved, the tested items were representative for the type to be approved (see point 1.2).

The mentioned test results refer to the ~~vehicle(s)~~ object(s) described under point 1.1. of this report.

Engineering centre Shanghai / July 13, 2018
LX



Liu Xin
Expert Technical Service

Type : HS205;XD286;UT555;DR818;MH3000;TRA
NS205;PILOT RS2;VZ616Z;RG205;
KTHS5; ZSH10 vfm;DR109;CSL612;
TX104;OR286; AP202;TP245; PILOTRS2;
NF19;GA205;H5100;FS05;M518
Manufacturer : Shandong Huasheng Rubber Co., Ltd.

List of modifications

Appendix 0

Correction of : ---

Modification of : ---

Addition of : Trade mark and tread pattern

Deletion of : ---

Type : HS205;XD286;UT555;DR818;MH3000;TRA
 NS205;PILOT RS2;VZ616Z;RG205;
 KTHS5; ZSH10 vfm;DR109;CSL612;
 TX104;OR286; AP202;TP245; PILOTRS2;
 NF19;GA205;H5100;FS05;M518
Manufacturer : Shandong Huasheng Rubber Co., Ltd.

Test minutes

Appendix 1

1. Tyre noise measurements

- 1.1. Date of test : March 18, 2016
- 1.2. Test vehicle
- Make and vehicle name : DONGFENG MOTOR COMPANY LTD., DFL1160BX5
- Wheelbase : 4700 mm(<5000mm for C2 & C3)
- 1.3. Location of test track : MTPG, Beijing, China
- Date of track certification to ISO10844:1994 : November 09, 2015
- Issued by : Highway Inspection Center of China Ministry of Communications
- Method of certification : Residual void content, Sound absorption coefficient, Texture depth
- 1.4. Test tyre details
- Tyre brand and trade description : KAPSEN / HS205
- Tyre type : 295/75R22.5 146/143L
- Tyre structure : Radial
- Category of use : Normal
- Tyre class : C3
- State whether the tyre is : ~~Standard / Reinforced~~
- Manufacturing date code : 1016
- 1.5. Test data
- Reference load : 3000 kg
- Reference inflation pressure : 830 kPa
- Reference speed : 70 / ~~80~~ km/h

Type : HS205;XD286;UT555;DR818;MH3000;TRA
 NS205;PILOT RS2;VZ616Z;RG205;
 KTHS5; ZSH10 vfm;DR109;CSL612;
 TX104;OR286; AP202;TP245; PILOTRS2;
 NF19;GA205;H5100;FS05;M518
Manufacturer : Shandong Huasheng Rubber Co., Ltd.

	Front left	Front right	Rear left	Rear right	Q _{t, avg}
Test mass (kg)	2267.5	2267.5	2030	2030	2148.75
Tyre load index (%)	75.6%	75.6%	67.7%	67.7%	71.6%
Inflation pressure (cold) (kPa)	640	640	560	560	/

Test rim width code : 9.00 x 22.5

Temperature measurement : NK5919(air)
 sensor type TH212 (track)

Valid Test results :

Running No.	Speed km/h	Direction of run	Sound Level Measured dB(A)		Air Temp. °C	Track Temp. °C	Sound Level Measured dB(A)		Comments
			Left	Right			Left Temp. correction	Right Temp. correction	
1	61.80	S to N	69.9	69.9	26.2	28.2	---	---	---
2	63.80	S to N	70.8	71.3	26.0	27.2	---	---	---
3	66.20	S to N	72.2	71.3	26.1	27.6	---	---	---
4	68.50	S to N	72.5	72.9	25.2	26.9	---	---	---
5	72.60	N to S	71.4	71.9	25.2	26.8	---	---	---
6	74.00	N to S	72.7	71.8	25.3	27.6	---	---	---
7	76.50	N to S	74.2	73.4	25.0	26.7	---	---	---
8	77.60	N to S	74.2	73.8	26.0	27.2	---	---	---
Limit value	60~80	---	---	---	5 ~ 40	5 ~ 50	---	---	---

Regression line slope : 32.62

Sound level after temperature correction according to paragraph 4.3. of annex 3 : 72.2 dB(A)

Final result according to paragraph 4.4. and 4.5. of annex 3 : **71 dB(A)**

Limit Value for C3 (Stage I+ II) : 73 dB(A)

Type : HS205;XD286;UT555;DR818;MH3000;TRA
NS205;PILOT RS2;VZ616Z;RG205;
KTHS5; ZSH10 vfm;DR109;CSL612;
TX104;OR286; AP202;TP245; PILOTRS2;
NF19;GA205;H5100;FS05;M518

Manufacturer : Shandong Huasheng Rubber Co., Ltd.

2. Tyre wet grip measurements

- 2.1. Date of test : March 24, 2106
- 2.2. Test vehicle : China National Heavy Duty Truck Group Co., Ltd. / ZZ3167N391HD1
- 2.3. Location of test track : NMTCTJ
Tianjin, P.R. China
- Test track characteristics : 2014L00885; 2014L01100
- Issued by : Tianjin Municipal Engineering Quality Inspection Center
- Method of certification : BPN / ASTM E 965
- Water depth : 0.90 – 1.30 mm
- 2.4. Identification of the SRTT : FVKP 00TX 3012
- 2.5. Valid test results* : Vehicle method

		SRTT (before)		Candidate (1 / 2 / 3 of 3)		SRTT (after)	
Size		315/70R22.5		295/75R22.5		315/70R22.5	
Load & speed index		154/150L		146/143L		154/150L	
Tyre identification		F2870		KAPSEN / HS205		F2870	
Manufacturing date code		/		1016		/	
Category of use		/		Normal		/	
Tyre class		/		C3		/	
Standard or Reinforced		/		/		/	
Rim width		9.00 x 22.5		9.00 x 22.5		9.00 x 22.5	
		Left	Right	Left	Right	Left	Right
Tyre load(kg)	Front	2650	2575	2650	2575	2650	2575
	Rear	2285	2252	2285	2252	2285	2252
Load index(%)	Front	70.7%	68.7%	88.3%	85.8%	70.7%	68.7%
	Rear	60.9%	60.1%	76.2%	75.1%	60.9%	60.1%
Tyre pressure (kpa)	Front	630	630	710	685	630	630
	Rear	630	630	590	580	630	630
Braking between 60 km/h and 20 km/h		Braking distance (m)	Average deceleratio n (m/s ²)	Braking distance (m)	Average deceleratio n (m/s ²)	Braking distance (m)	Average decelerati on (m/s ²)
Measurement	1	17.96	6.874	16.23	7.607	19.57	6.309
	2	18.53	6.663	16.55	7.460	19.82	6.229
	3	18.06	6.836	16.19	7.626	19.30	6.397

Type : HS205;XD286;UT555;DR818;MH3000;TRA
 NS205;PILOT RS2;VZ616Z;RG205;
 KTHS5; ZSH10 vfm;DR109;CSL612;
 TX104;OR286; AP202;TP245; PILOTRS2;
 NF19;GA205;H5100;FS05;M518

Manufacturer : Shandong Huasheng Rubber Co., Ltd.

	4	---	---	16.50	7.482	---	---
	5	---	---	16.48	7.491	---	---
	6	---	---	16.31	7.570	---	---
Average AD		---	6.791	---	7.539	---	6.312
Standard deviation (m/s ²)		0.113		0.070		0.084	
(Validation of results Coeff. of variation (percent) < 3 per cent		1.66		0.93		1.33	
Adjusted average AD of ref. tyre: Ra (m/s ²)		---		6.55		---	
BFC(R) reference tyre (SRTT)		0.67					
BFC(T) candidate tyre		0.77					
Wet grip index G(T)		--		1.15		--	
Ambient temp. (°C)		20.4		24.0		22.0	
Ground temp. (°C)		21.2		23.7		22.3	
Limit value for C3:		0.8					

Type : HS205;XD286;UT555;DR818;MH3000;TRA
 NS205;PILOT RS2;VZ616Z;RG205;
 KTHS5; ZSH10 vfm;DR109;CSL612;
 TX104;OR286; AP202;TP245; PILOTRS2;
 NF19;GA205;H5100;FS05;M518
Manufacturer : Shandong Huasheng Rubber Co., Ltd.

3. Rolling resistance measurements

- 3.1. Date of test : January 05, 2016
- 3.2. Test site : TQSIC, Beijing, China
- 3.3. Test machine information
- Make / type : Tianjin Jiurong Wheel Tech. Co., Ltd. / TJR-RR-TB(Y)
- Applicable test method : Force method
- Diameter ($\geq 1.7\text{m}$) : 1.708 m
- Surface : Smooth steel / ~~Textured surface~~
- Test machine alignment with : n.a.
- Alignment valid from : n.a.
- Latest test machine monitoring on : December, 2015
- Measurement standard deviation σ_m in latest monitoring : $\sigma_m = 0.010 \text{ N/kN}$ ($\sigma_m \leq 0.06 \text{ N/kN}$ for Class C3 tyres)
- 3.4. Test tyre details
- Tyre brand and trade description : KAPSEN / HS205
- Tyre type : 215/75R17.5 135/133J
- Tyre structure : Radial
- Category of use : Normal
- Tyre class : C3
- Plies fo tread and sidewall : 5 STEEL / 1 STEEL
- State whether the tyre is : ~~Standard~~ / Reinforced
- Manufacturing date code : 1016
- 3.5. Test conditions
- Test rim size / material : 6.00 x 17.5 / Steel
- Test speed : 80 km/h
- Test load (85% of maximum load capacity) : 18171.7 N

Type : HS205;XD286;UT555;DR818;MH3000;TRA
NS205;PILOT RS2;VZ616Z;RG205;
KTHS5; ZSH10 vfm;DR109;CSL612;
TX104;OR286; AP202;TP245; PILOTRS2;
NF19;GA205;H5100;FS05;M518
Manufacturer : Shandong Huasheng Rubber Co., Ltd.

	Inflation pressure	:	850 kPa	
	Thermal conditioning	:	more than 6 hours	
	Warm-up	:	Forward rotation	Reverse rotation
		:	150 minutes	30 minutes
3.6.	Measurement and recording			
	The initial test inflation pressure	:	850 kPa	
		:	Forward rotation	Reverse rotation
	The test speed, U_n	:	60.1 km/h	-60.0 km/h
	The ambient temperature, t_{amb}	:	23.05 °C	23.00 °C
	The load on the tyre normal to the drum surface, L_m	:	18178.82 N	18179.24 N
	Spindle force(formal test mode)	:	-38.146 N	125.130 N
	The distance from the tyre axis to the drum outer surface under steady-state conditions, r_L (formal test mode)	:	357.45 mm	357.51 mm
	Skim test load	:	396.84 N	396.84 N
	Spindle force (skim test mode)	:	-9.018 N	-0.133 N
	The distance from the tyre axis to the drum outer surface under steady-state conditions(skim test mode)	:	381.51 mm	381.43 mm
3.7.	Rolling resistance result			
	Initial value (or average in the case of more than 1)	:	6.018 N/KN	
	Temperature corrected	:	5.946 N/KN	
	Temperature and drum diameter corrected	:	5.81 N/KN	
	Limit value for C3 (Stage I/ II)	:	8.0 N/KN 6.5 N/KN	
	The test result corrected by alignment equation mentioned in paragraph 6 of Annex Iva of Regulation (EC) No. 1222/2009 is: 6.00 N/KN, Energy Efficiency Class: n/a			
4.	Snow performance measurements	:	Not applicable	