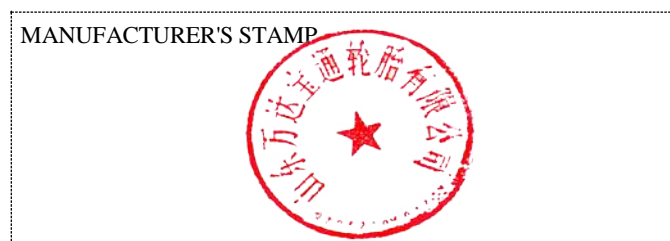


**APPLICATION FOR APPROVAL EXTENSION OF A TYPE OF PNEUMATIC TYRE ACCORDING TO ECE
REGULATION No. 54, 00 SERIES OF AMENDMENTS**

1.	Manufacturer's name or trade mark ⁽²⁾	:	BOTO; YOTO; ECED; estone; ATHOS; MÄXX; WINDA; <u>Satoya</u>
2.	Tyre type designation by the manufacturer ⁽²⁾	:	BT215; ES215; HG2201; MF4300; WD215; <u>Grand GT-081</u>
3.	Manufacturer's name and address	:	Shandong Wanda BOTO Tyre Co., Ltd. No.68, Yongshen Road, Dongying City, Shandong 257506 P.R. China
4.	If applicable, name and address of manufacturer's representative	:	not applicable
5.	Summarised description,		
5.1.	Tyre size designation	:	275/70R22.5
5.2.	Category of use	:	normal /special/snow ⁽¹⁾
5.3.	Structure	:	diagonal (bias ply) /radial ⁽¹⁾
5.4.	Speed category symbol		
5.4.1.	Nominal	:	J
5.4.2.	Additional (if applicable)	:	not applicable
5.5.	Load capacity indices		
5.5.1.	corresponding to nominal speed	:	single: 148, twinned (dual): 145
5.5.1.	corresponding to additional speed	:	single: ---, twinned (dual): ---
6.	Overall dimensions(design)	:	calculated/ Annex 5 ⁽¹⁾
	overall section width	:	277
	outer diameter	:	962
7.	Factor 'x'	:	0.75
8.	Ply-rating number for diagonal (bias ply) tyres	:	18 PR
9.	Rims on which the tyre can be mounted	:	8.25
10.	Measuring rim and test rim	:	see attached test report
11.	Tyre class	:	C2 /C3 ⁽¹⁾
12.	State whether the tyre is	:	tube less / tube type ⁽¹⁾
13.	Traction tyre	:	Yes / no(see the tread pattern detail in drawing) ⁽¹⁾
14.	State if special use tyre	:	n.a.
	Professional Off-Road	:	Yes / no ⁽¹⁾
	Tread depth / Void to fill ratio	:	n.a.
15.	Inflation pressure and index for measuring and testing	:	130 PSI (also see attached test report)
16.	Submitted for approval on (date)	:	December 30, 2017

We herewith declare that we have not applied and will not apply for approval with another Contracting Party of the ECE for the same type of product.



Signature:

Kou Ruqiang

Name: Kou Ruqiang



THIS APPLICATION IS ACCOMPANIED BY:

- A drawing of the tyre's side wall, tread and dimensioned cross section.
- The test report

(1) Strike out what does not apply.

(2) Modified points are underlined for extension.

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- ~~approval withdrawn~~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 pneumatic tyre for motor vehicles pursuant to Regulation number 54.

Approval number: E4-54R-0034255**Extension number: 01**

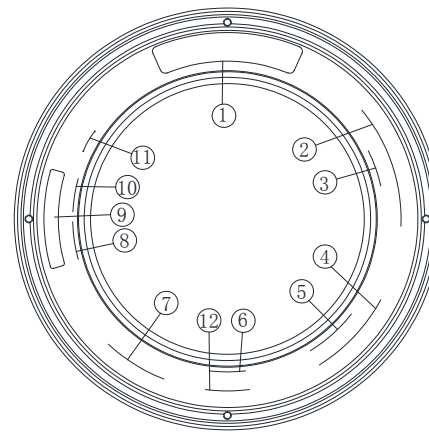
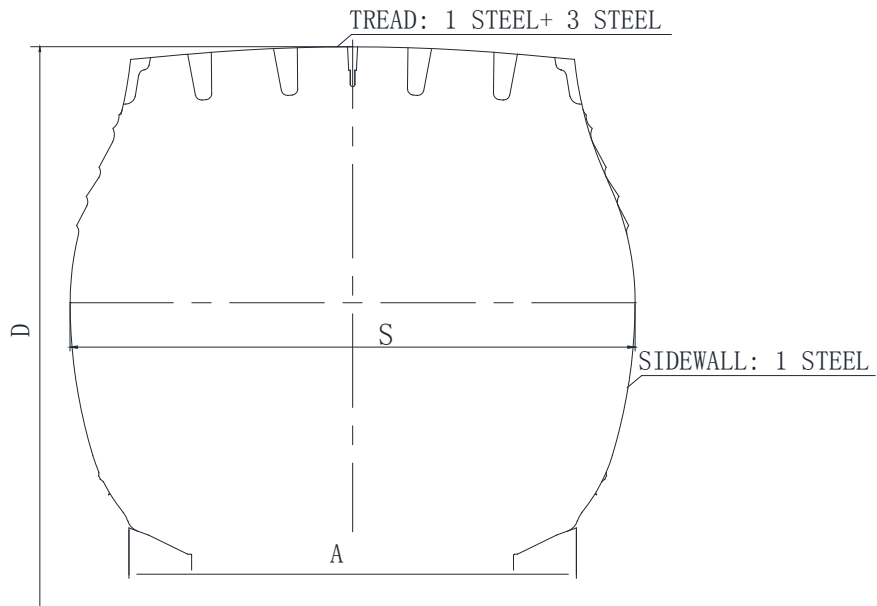
1. Manufacturer's name and address : Shandong Wanda BOTO Tyre Co., Ltd.
No.68, Yongshen Road, Dongying City,
Shandong 257506
P.R. China
2. Tyre type designation⁽²⁾
 - 2.1. Brand-name(s) or trade mark(s) BOTO; YOTO; ECED; estone; ATHOS;
MÄXX; WINDA;
Satoya
 - 2.2. Trade description(s)/ Commercial name(s) BT215; ES215; HG2201; MF4300; WD215;
Grand GT-081
3. If applicable, name and address of the manufacturer's representative : not applicable
4. Summarized description
 - 4.1. Size of tyre : 275/70R22.5
 - 4.2. Category of use : ~~normal/snow/special~~⁽¹⁾
 - 4.3. Structure : ~~diagonal(bias ply)~~/radial⁽¹⁾



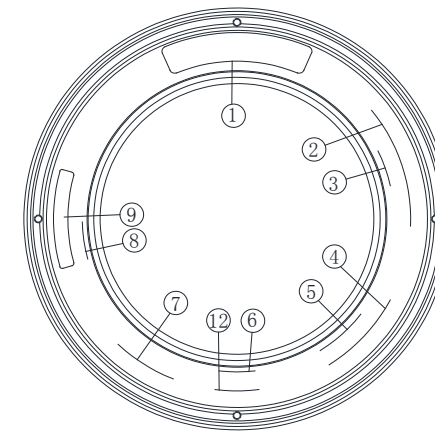
- 4.4. Tyre class : ~~E2~~/C3⁽¹⁾
- 4.5. Speed category symbol:
- 4.5.1. Nominal : J
- 4.5.2. additional (if applicable) : ---
- 4.6. Load-capacity indices:
- 4.6.1. Corresponding to nominal speed:
 - single : 148
 - twinned (dual) : 145
- 4.6.2. Corresponding to additional speed:
 - single : ---
 - twinned (dual) : ---
5. Technical service and, where applicable, test laboratory approved for purposes of approval or of verification of conformity : TÜV Rheinland Kraftfahrt GmbH
 Technologiezentrum Verkehrssicherheit
 Typprüfstelle Fahrzeuge/Fahrzeugteile
 Am Grauen Stein
 D-51105 Köln (Poll)
6. Date of report issued by that service : February 10, 2018
7. Number of report issued by that service : 86-R54-0447/18-00
8. Reason(s) of extension (if applicable) : Addition of brand name and trade description
9. Any remarks : ---
10. Place : Zoetermeer
11. Date : 15-MAR-2018
12. Signature :  F.L.A. Rodenburg 
13. Annexed to this communication is a list of documents in the approval file deposited at the administrative service having delivered the approval and which can be obtained upon request.
 - Application form relating to ECE approval for a pneumatic tyre pursuant to Regulation number 54.
 - The drawing of the tyre's sidewalls, tread and dimensioned cross-section.
 - The test report as mentioned in item 7.

(1) Strike out what does not apply.

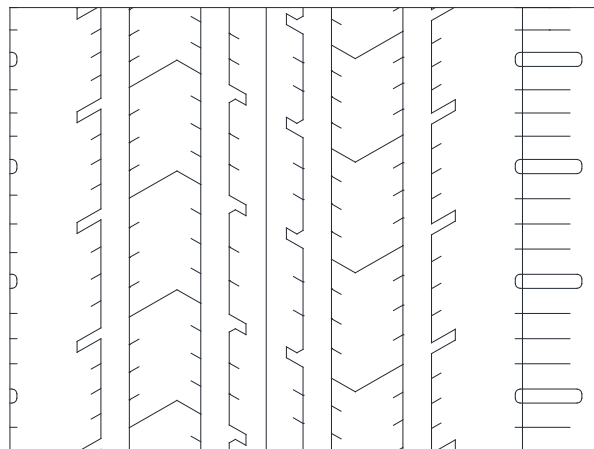
(2) A list of Brand name(s)/trademark(s) or Trade description(s)/ Commercial name(s) may be annexed to this communication



LOWER



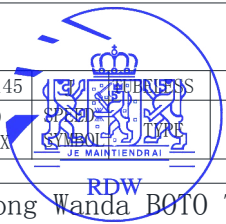
UPPER



Production

1	BOTO or YOTO or ECED or estone or WINDA or ATHOS or MAXX or Satoya
2	275/70R22.5 148/145 J 18PR
3	STANDARD RIM 8.25
4	TREAD:1 STEEL + 3 STEEL SIDEWALL:1 STEEL MAX. LOAD: SINGLE 3150kg(6940LBS) AT 900kPa(130PSI) COLD MAX. LOAD: DUAL 2900kg(6395LBS) AT 900kPa(130PSI) COLD
5	TUBELESS REGROOVABLE RADIAL
6	MADE IN CHINA
7	SAFETY WARNING: SERIOUS INJURY MAY RESULT FROM: TIRE FAILURE TO UNDERINFLATION/OVERLOADING—FOLLOW OWNER'S MANUAL OR TIRE PLACARD IN VEHICLE, EXPLOSION OF TIRE/RIM ASSEMBLY DUE TO IMPROPER MOUNTING—USE SAFETY CAGE AND CLIP ON EXTENSION OF AIR HOSE. ONLY SPECIALLY TRAINING PERSON SHOULD MOUNT TIRES.
8	DOT 80AL BTWJ ×××× (date code)
9	BT215 or ES215 or WD215 or HG2201 or MF4300 or Grand GT-081
10	ⓔ₁ ×××××××
11	XXXXXXXX (batch number)
12	M + S

275/70R22.5	148/145	18PR	958	276	210	19.2
TIRE SIZE	LOAD INDEX	SPEED SYMBOL	D (mm)	S (mm)	A (mm)	SKID DEPTH (mm)



DRAWN BY Song Chuanyu CHECK BY Lv Hongxia APPROVE BY Li Ming Shandon Wanda BOTO Tyre Co., Ltd.

Type : 275/70R22.5
Manufacturer : Shandong Wanda BOTO Tyre Co., Ltd.

TEST REPORT

according to UNECE-Regulation

Uniform provisions concerning the approval of pneumatic tyres
for commercial vehicles and their trailers

ECE-R54

including all amendments until
Amend.00, Suppl. 22

Approval Status

UNECE approval : E4-54R-0034255 Ext. 00

Structure of the Test Report

Item No.

0. General information
 1. Tested vehicle(s) / object(s)
 2. Test 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 : 275/70R22.5
 Manufacturer : Shandong Wanda BOTO Tyre Co., Ltd.

0. General Information

- 0.1. Make (trade name of the manufacturer) : Shandong Wanda BOTO Tyre Co., Ltd.
 0.2. Type : 275/70R22.5
 0.3. Category of vehicle : Not applicable
 0.4. Name and address of the manufacturer : Shandong Wanda BOTO Tyre Co., Ltd.
 No.68, Yongshen Road, Dongying City,
 Shandong 257506
 P.R. China
 0.5. No. of the information folder : Not applicable
 -Date of issue : ---
 -Date of last change : December 30, 2017

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

- 1.1. Description
 1.1.1. ~~Vehicle~~/ object
 Commercial description : Not applicable
 Type(s) ~~variant(s)~~/ ~~version(s)~~ : 275/70R22.5
 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 : Not applicable



Type : 275/70R22.5
 Manufacturer : Shandong Wanda BOTO Tyre Co., Ltd.

2. Test 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 : Not applicable
- 2.1.2. Subcontracting : Not applicable
- 2.2. Test results : See Appendix 1
 Numbering according to Paragraph 6. and 7. of the UNECE-R54
- 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 : Shandong Wanda BOTO Tyre Co., Ltd.
 No.68, Yongshen Road, Dongying City,
 Shandong 257506
 P.R. China
- Test date : December 16 - 18, 2015
- 2.4. Remarks : Not applicable



Type : 275/70R22.5
Manufacturer : Shandong Wanda BOTO Tyre 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 / February 10, 2018
SR/LB



Su Rui
Expert Technical Service



Type : 275/70R22.5
Manufacturer : Shandong Wanda BOTO Tyre Co., Ltd.

List of modifications

Appendix 0

- Correction of : ---
- Modification of : ---
- Addition of : Trade description and brand name
- Deletion of : ---



Type : 275/70R22.5
 Manufacturer : Shandong Wanda BOTO Tyre Co., Ltd.

Test minutes

Appendix 1

1. Test data

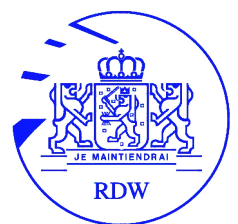
1.1 Object markings

- 1.1.1 Trade name or mark : BOTO
- 1.1.2 Tyre type designation : BT215
- 1.1.3 Plies of Tread / Sidewall : 1 STEEL + 3 STEEL / 1 STEEL
- 1.1.4 Tyre size designation : 275/70R22.5
- 1.1.5 Category of use : Snow
 Indication of category of use : Word"M+S"
- 1.1.6 Structure : Radial
 Indication / symbol of structure : Word "RADIAL", letter "R" in front of rim diameter marking
- 1.1.7 Speed category : Nominal: J Supplementary: ---
- 1.1.8 Load-Capacity Indices(L.I.)
 corresponding to nominal speed : Single: 148 Twinned: 145
 corresponding to supplementary speed : Single: --- Twinned: ---
- 1.1.9 Index of inflation pressure for testing : 130 PSI
- 1.1.10 Ply-rating number : 18PR
- 1.1.11 Word in case of without inner tube : TUBELESS
- 1.1.12 Word in case of tyre can be regrooved : REGROOVABLE
- 1.1.13 Inscription in case of Free Rolling Tyre or Traction Tyre : Not applicable
- 1.1.14 Date of manufacture : 4115

1.2. Dimension measurement according to Annex 6

- 1.2.1 Measuring rim : 8.25 x 22.5
- 1.2.2 Inflation pressure after mounting on measuring rim : 9.0 bar
- 1.2.3 Inflation pressure adjusted before conditioning : 9.0 bar
- 1.2.4 Conditioning of tyre : More than 24 hours
- 1.2.5 Inflation pressure readjusted after conditioning : 9.0 bar
- 1.2.6 Overall width at six equally spaced points

1.	276.5 mm	2.	275.6 mm	3.	275.2 mm
4.	276.6 mm	5.	275.3 mm	6.	276.4 mm
Max.: 276.6 mm					



Type : 275/70R22.5
 Manufacturer : Shandong Wanda BOTO Tyre Co., Ltd.

- 1.2.7 Circumference : 3021 mm
- 1.2.8 Outer diameter : 961.6 mm
- 1.2.9 Tread depth / void to fill ratio in case of special use tyre : Not applicable

1.3. Load/speed performance test according to Annex 7

- 1.3.1 Test machine : GX-YLN-1214
- 1.3.2 Diameter of test drum : 1.707 m
- 1.3.3 Test rim : 8.25 x 22.5
- 1.3.4 Inflation pressure adjusted before conditioning : 9.0 bar
- 1.3.5 Conditioning of tyre : More than 3 hours
- 1.3.6 Test-room temperature : 28°C
- 1.3.7 Inflation pressure readjusted after conditioning : 9.0 bar
- 1.3.8 Circumference after conditioning, before testing : 3021 mm
- 1.3.9 Outer diameter after conditioning, before testing : 961.6 mm
- 1.3.10 100% load corresponding to L.I.(single) : 3150 kg

Step	Step duration [h]	Total duration [h]	Actual speed [km.h ⁻¹]	Test Load [%]	Test Load [kg]
1.	7	7	48	66	2079
2.	16	23	48	84	2646
3.	24	47	48	101	3181.5

- 1.3.11 Conditioning after testing : More than 6 hours
- 1.3.12 Circumference after conditioning, after testing : 3034 mm
- 1.3.13 Outer diameter after conditioning, after testing : 965.7 mm
- 1.3.14 Difference outer diameter before and after testing (max. 3.5 %) : 4.1 mm
: 0.43 %
- 1.3.15 Inspection after test : The tyre does not exhibit tread separation, ply separation, cord separation, chunking or broken cords.

2. Remarks : The test data refer to report No. 86-R54-0447/18-00 corresponding to type approval No. E4-54R-0034255 Ext.00.

