

**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 <sup>(2)</sup>                 | : | HUALU;ANNAITE;XINGYUAN;GUOBAO;QIANGWEI;<br>GUANGDA;ANGUANGDA;HILO;FULLRUN ; ANTYRE ;<br>VIKRANT; FEDERO;JKTYRE; AMBERSTONE;BENTENG;<br>DAEWOO; INFINITY ;TURNPIKE; XBRI; SYRON; FULLWAY;<br>BILLSTONE;GREMAX;FORGOOD;AUFINE;PETROMAX;   |
| 2.     | Tyre type designation by the manufacturer <sup>(2)</sup>         | : | 100;300;366;766; 786; TB906;TB786; SL602; SL366; SL766; SL786;<br>AL606;F168;F186; VUC;VALIANT-VUB1;JETWAY-EX3; 668;<br>SL668;DWS11; TB766+; TB766;TB875; TB655; TB762; TB877;<br>S200;TB878;S900;X88;XB300;K-TIR225F1; TB901;GM100;<br>GM300;GM366;GM766;GM786;GM668;FG901;FG907; AF177;<br>AF667;AF18;AF867;PT501;PT503; <u>TB668</u> |
| 3.     | Manufacturer's name and address                                  | : | Xingyuan Tire Group Co., Ltd.<br>Xishui Industrial Zone,Guangrao,<br>Dongying Shandong 257336<br>P.R. China   |
| 4.     | If applicable, name and address of manufacturer's representative | : | not applicable  |
| 5.     | Summarised description,  |   |   |
| 5.1.   | Tyre size designation  | : | 315/80R22.5   |
| 5.2.   | Category of use  | : | Normal / <del>special</del> / <del>snow</del>   |
| 5.3.   | Structure  | : | <del>diagonal (bias-ply)</del> / radial   |
| 5.4.   | Speed category symbol  |   |   |
| 5.4.1. | Nominal  | : | M   |
| 5.4.2. | Additional   | : | not applicable  |
| 5.5.   | Load capacity indices  |   |   |
| 5.5.1. | corresponding to nominal speed                                   | : | single: 157, twinned (dual): 154  |
| 5.5.2. | corresponding to additional speed                                | : | single: --- , twinned (dual): ---   |
| 6.     | Overall dimensions(design)                                       | : | ETRTO/ <del>calculated</del> / <u>Annex 5</u>   |
|        | overall section width  | : | 312   |
|        | outer diameter   | : | 1076  |
| 7.     | Factor 'x'   | : | 0.75  |
| 8.     | Ply-rating number for diagonal (bias ply)                        | : | 20  |
| 9.     | Rims on which the tyre can be mounted                            | : | 9.00  |
| 10.    | Measuring rim and test rim                                       | : | see attached test report  |
| 11.    | Tyre class   | : | C2/ C3  |
| 12.    | State whether the tyre is  | : | tubeless / <del>tube type</del>   |
| 13.    | Traction tyre  | : | Yes / no( <del>see the tread pattern detail in drawing</del> )  |
| 14.    | State if special use tyre  | : | n.a.  |
|        | Professional Off-Road  | : | Yes/ <del>no</del>  |
|        | Tread depth  | : | n.a.  |
|        | Void to fill ratio   | : | n.a.  |
| 15.    | Inflation pressure and index for measuring and testing           | : | see attached test report  |
| 16.    | Submitted for approval on (date)                                 | : | Feb.02, 2015  |



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.

MANUFACTURER'S STAMP

Signature :

*Wang Jishui*

Name:

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 <sup>(1)</sup>:

- ~~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-0023104**
**Extension number: 05**

1. Manufacturer's name or trade mark(s) on the tyre type : HUALU; ANNAITE; XINGYUAN; GUOBAO; QIANGWEI; GUANGDA; ANGUANGDA; HILO; FULLRUN; ANTYRE; VIKRANT; FEDERO; JKTYRE; AMBERSTONE; BENTENG; DAEWOO; INFINITY; TURNPIKE; XBRI; SYRON; FULLWAY; BILLSTONE; GREMAX; FORGOOD; AUFINE; PETROMAX
2. Tyre type designation by the manufacturer : 100;300;366;766; 786; TB906;TB786; SL602; SL366; SL766; SL786; AL606;F168;F186; VUC;VALIANT-VUB1;JETWAY-EX3; 668; SL668;DWS11; TB766+; TB766;TB875; TB655; TB762; TB877; S200;TB878; S900;X88;XB300;K-TIR225F1; TB901;GM100; GM300; GM366;GM766;GM786; GM668;FG901;FG907; AF177; AF667;AF18;AF867; PT501;PT503  
TB668
3. Manufacturer's name and address : Xingyuan Tire Group Co., Ltd.  
Xishui Industrial Zone, Guangrao,  
Dongying, Shandong 257336  
P.R. China
4. If applicable, name and address of the manufacturer's representative : not applicable
5. Summarized description
  - 5.1. Size of tyre : 315/80R22.5
  - 5.2. Category of use : normal/~~snow~~/special <sup>(1)</sup>



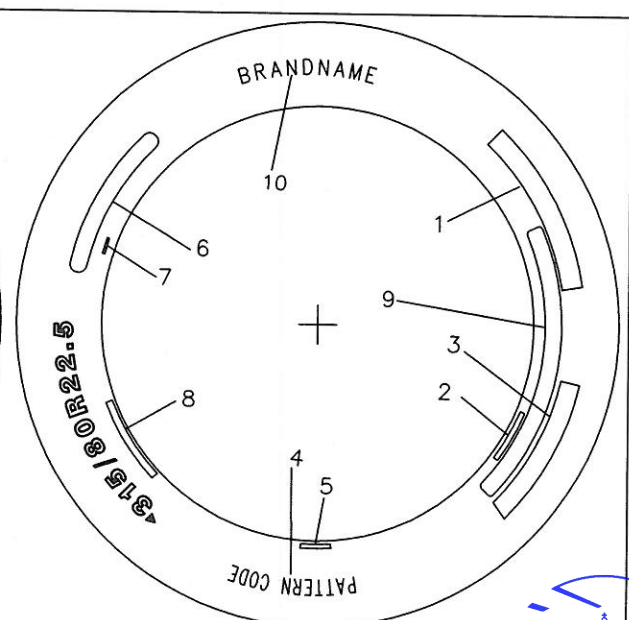
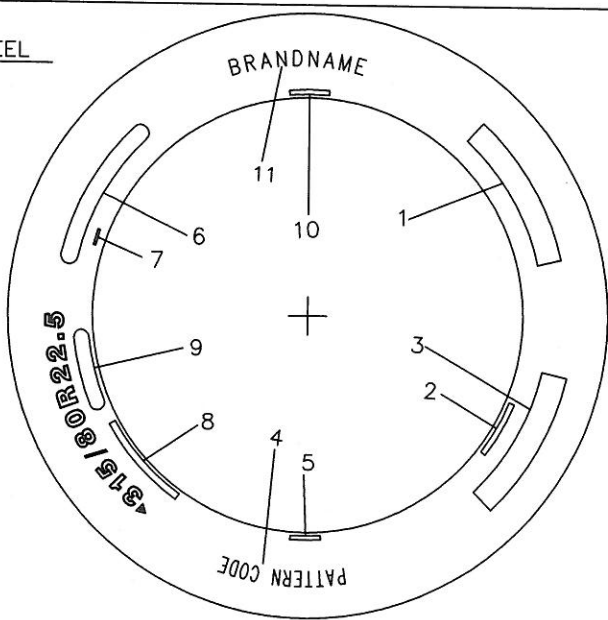
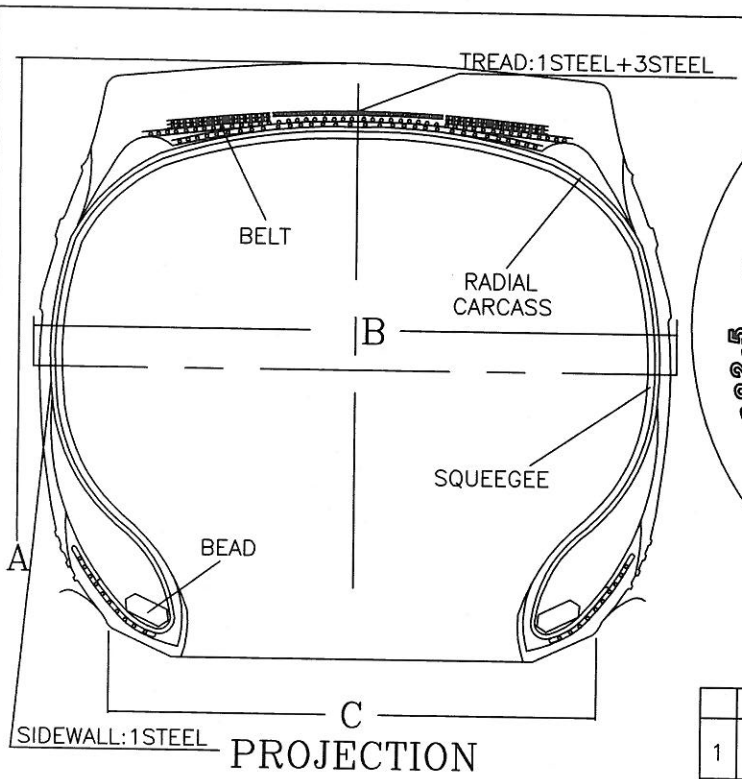
- 5.3. Structure : ~~diagonal(bias ply)~~/radial <sup>(1)</sup>
- 5.4. Tyre class : ~~E2/C3~~ <sup>(1)</sup>
- 5.5. Speed category symbol:
- 5.5.1. nominal : M
- 5.5.2. additional (if applicable) : ---
- 5.6. Load-capacity indices:
- 5.6.1. Corresponding to nominal speed:
- single : 157
- twinned (dual) : 154
- 5.6.2. Corresponding to additional speed:
- single : ---
- twinned (dual) : ---
6. Technical service and, where applicable, test laboratory approved for purposes of approval or of verification of conformity : TÜV Rheinland Kraftfahrt GmbH  
Technologiezentrum Verkehrssicherheit  
Typrüfstelle Fahrzeuge/Fahrzeugteile  
Am Grauen Stein  
D-51105 Köln (Poll)
7. Date of report issued by that service : February 15, 2015
8. Number of report issued by that service : 86-R54-0556/15-00
9. Reason(s) of extension (if applicable) : trade marks and tyre type designations
10. Any remarks : ---
11. Place : Zoetermeer
12. Date : 20-FEB-2015
13. Signature :

  
  
**M. Uttien**

14. 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 8.

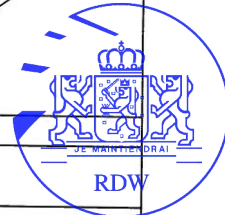
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<sup>(1)</sup> Strike out what does not apply.



TREAD PATTERN  
REFER TO ATTACHMENT NO.01

| BOTTOM SIDEWALL |  | TOP SIDEWALL |  |
|-----------------|--|--------------|--|
| 1               | ALL STEEL RADIAL TIRE REGROOVABLE  | 1            | ALL STEEL RADIAL TIRE REGROOVABLE  |
| 2               | STANDARD RIM 9.00  | 2            | STANDARD RIM 9.00  |
| 3               | WARNING: ... ..  | 3            | WARNING: ... ..  |
| 4               | REFER TO ATTACHMENT NO.022-2013  | 4            | REFER TO ATTACHMENT NO.022-2013  |
| 5               | TUBELESS   | 5            | TUBELESS   |
| 6               | 157/154 M 20PR LOAD RANGE L<br>PLIES:SIDEWALL 1 STEEL; TREAD 1 STEEL + 3 STEEL<br>MAX LOAD SINGLE 4125 Kg(9090 LBS) AT 900 Kpa(130 PSI) COLD<br>MAX LOAD DOUBLE 3750 Kg(8270 LBS) AT 900 Kpa(130 PSI) COLD | 6            | 157/154 M 20PR LOAD RANGE L<br>PLIES:SIDEWALL 1 STEEL; TREAD 1 STEEL + 3 STEEL<br>MAX LOAD SINGLE 4125 Kg(9090 LBS) AT 900 Kpa(130 PSI) COLD<br>MAX LOAD DOUBLE 3750 Kg(8270 LBS) AT 900 Kpa(130 PSI) COLD |
| 7               | ***** (MOULD CODE)   | 7            | ***** (MOULD CODE)   |
| 8               | DOT 66 TW BB31**** (****----DATE CODE)   | 8            | DOT 66 TW BB31**** (****----DATE CODE)   |
| 9               | (E4) *****   | 9            | 兴源轮胎集团有限公司/-   |
| 10              | MADE IN CHINA  | 10           | REFER TO ATTACHMENT NO.01  |
| 11              | REFER TO ATTACHMENT NO.01  |              |  |



|             |            |              |      |        |        |        |                    |
|-------------|------------|--------------|------|--------|--------|--------|--------------------|
| 315/80R22.5 | 157/154    | M            | TL   | 1076   | 312    | 228.5  | SEE TREAD PATTERNS |
| TIRE SIZE   | LOAD INDEX | SPEED SYMBOL | TYPE | A (mm) | B (mm) | C (mm) | SKID DEPTH (mm)    |

DRAWN BY *Liu Fengzhen* CHECKED BY *Fengmi liy* APPROVED BY *Wang Xiaohua* XINGYUAN TIRE GROUP Co.,Ltd.

ATTACHMENT NO. 01

TIRE SIZE 315/80R22.5 157/154 M

E4 \*\*\*\*\*

BRANDNAME

PATTERN CODE

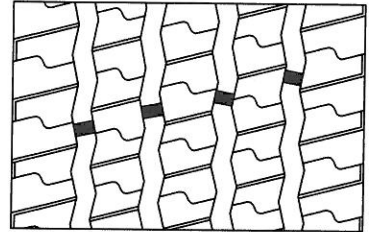
TREAD PATTERN

**FULLRUN**

TB668

**ANTYRE**

TB668



TB668  
SKID DEPTH: 14.5mm



Tyre size : 315/80R22.5  
Manufacturer : Xingyuan Tire Group Co., Ltd.

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## TEST REPORT

according to the ECE-Regulation

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

including all amendments until  
... ECE-R54, Amend.00, Suppl. 18...

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#### Approval Status

ECE – certificate : E4-54R-0023104 Ext. 05

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#### Structure of the Test Report

##### Item No.

- 0. General information
  - 1. Tested 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.



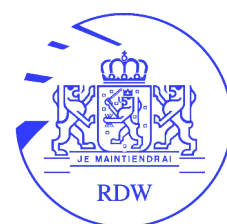
Tyre size : 315/80R22.5  
 Manufacturer : Xingyuan Tire Group Co., Ltd.

## 0. General Information

- 0.1. Trade name or mark(s) : HUALU; ANNAITE; XINGYUAN; GUOBAO; QIANGWEI; GUANGDA; ANGUANGDA; HILO; FULLRUN; ANTYPRE; VIKRANT; FEDERO; JKTYRE; AMBERSTONE; BENTENG; DAEWOO; INFINITY; TURNPIKE; XBRI; SYRON; FULLWAY; BILLSTONE; GREMAX; FORGOOD; AUFINE; PETROMAX
- 0.2. Tyre type designation(s) by the manufacturer : 100;300;366;766; 786; TB906;TB786; SL602; SL366; SL766; SL786; AL606;F168;F186; VUC;VALIANT-VUB1;JETWAY-EX3; 668; SL668;DWS11; TB766+; TB766;TB875; TB655; TB762; TB877; S200;TB878; S900;X88;XB300;K-TIR225F1; TB901;GM100; GM300; GM366;GM766;GM786;GM668;FG901;FG907; AF177; AF667;AF18;AF867;PT501;PT503; TB668
- 0.3. Tyre size designation : 315/80R22.5
- 0.4. Manufacturer's name and address : Xingyuan Tire Group Co., Ltd.  
 Xishui Industrial Zone, Guangrao,  
 Dongying, Shandong 257336  
 P.R. China
- 0.5. No. of the information folder : n/a  
 -Date of issue : ---  
 -Date of last change : ---

## 1. Tested object(s)

- 1.1. Object markings
- Trade name or mark : HILO
- Tyre type designation : 366
- Plies of Tread / Sidewall : 1 STEEL + 3 STEEL / 1 STEEL
- Tyre size designation : 315/80R22.5
- Category of use : Normal
- Indication of category of use : n/a
- Structure : radial
- indication / symbol of structure : word "RADIAL", letter "R" in front of rim diameter marking
- Speed category : nominal: M Supplementary: ---
- Load-Capacity Indices(L.I.)
- |                                      |               |              |
|--------------------------------------|---------------|--------------|
| corresponding to nominal speed       | : single: 157 | twinned: 154 |
| corresponding to supplementary speed | : single: --- | twinned: --- |
- Index of inflation pressure for testing : 130 PSI
- Ply-rating number : 20PR
- Word in case of without inner tube : word "TUBELESS"



Tyre size : 315/80R22.5  
 Manufacturer : Xingyuan Tire Group Co., Ltd.

- Word in case of tyre can be regrooved : word "REGROOVABLE"
- Inscription in case of Free Rolling Tyre or Traction Tyre : n/a
- Date of manufacture : 1712
- 1.2 Worst case selection : n/a
- 1.3. Remarks : All versions of the types as stated in the information folder are covered by the tested object(s) respectively.

**2. Test record**

- 2.1. Equipment for measuring and testing : The test facilities / measurement equipment used were in compliance with the test requirements
- 2.2. Test results
  - Remarks concerning extension : ~~The type has been tested according to the modification(s) mentioned in appendix 0.~~  
An actual practical test of the object was not necessary.  
The results of the previous test(s) are still valid.  
Test results refer to test report No: 86-R54-1540/13  
corresponding to type approval No: E4-54R-0023104 Ext.  
04.
- 2.3. Additional information : The results of the test refer exclusively to the object(s) mentioned under point 1. of this report.
- Test site : Xingyuan Tire Group Co., Ltd.  
Xishui Industrial Zone, Guangrao,  
Dongying, Shandong 257336  
P.R. China
- Test date : ---
- 2.4. Remarks : ---

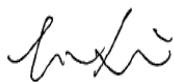
**3. List of Appendices**

- Appendix 0 : List of modifications

**4. Statement of conformity**

The above mentioned information folder and the type described in that comply with the requirements mentioned on page 1. The mentioned test results refer to the object(s) described under point 1.1 of this report.

Engineering centre Shanghai, / February 15, 2015  
 LX



Dipl.-Ing. Liu Xin  
 Expert Technical Service





Tyre size : 315/80R22.5  
Manufacturer : Xingyuan Tire Group Co., Ltd.

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List of modifications

Appendix 0

Correction of : ---  
Modification of : ---  
Addition of : trade marks and tyre type designations  
Deletion of : ---

