

**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⁾ | : | HUALU;ANNAITE; HILO; QIANGWEI;GUANGDA;
GUOBao; ANGUANGDA; BENTENG;AMBERSTONE;
AUFINE; <u>SIERRA</u> ; |
| 2. Tyre type designation by the manufacturer ⁽²⁾ | : | 366; AF177; <u>SR276</u> |
| 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
manufacturer's representative | : | not applicable |
| 5. Summarised description, | | |
| 5.1. Tyre size designation | : | 315/70R22.5 |
| 5.2. Category of use | : | Normal / special /snow |
| 5.3. Structure | : | diagonal (bias ply) / radial |
| 5.4. Speed category symbol | | |
| 5.4.1. Nominal | : | M |
| 5.4.2. Additional (if applicable) | : | not applicable |
| 5.5. Load capacity indices | | |
| 5.5.1. corresponding to nominal speed | : | single: 154, twinned (dual): 150 |
| 5.5.1. corresponding to additional speed | : | single: --- , twinned (dual): --- |
| 6. Overall dimensions(design) | : | ETRTO/ calculated /Annex 5 |
| overall section width | : | 312 |
| outer diameter | : | 1014 |
| 7. Factor 'x' | : | 0.75 |
| 8. Ply-rating number for diagonal (bias ply) tyres | : | 18 |
| 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 / tube type |
| 13. Traction tyre | : | Yes / no(see the tread pattern detail in drawing) |
| 14. State if special use tyre | : | n.a. |
| Professional Off-Road | : | Yes/ no |
| 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) | : | Oct 27, 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 :

.....

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 ⁽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-0028677

Extension number: 02

- | | | |
|--------|--|--|
| 1. | Manufacturer's name or trade mark(s) on the tyre type | : HUALU; ANNAITE; HILO; QIANGWEI; GUANGDA; GUOBAO; ANGUANGDA; BENTENG; AMBERSTONE; AUFINE; <u>SIERRA</u> |
| 2. | Tyre type designation by the manufacturer | : 366; AF177; <u>SR276</u> |
| 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 | : 315/70R22.5 |
| 5.2. | Category of use | : normal/ snow/special ⁽¹⁾ |
| 5.3. | Structure | : diagonal(bias ply) /radial ⁽¹⁾ |
| 5.4. | Tyre class | : C2 /C3 ⁽¹⁾ |
| 5.5. | Speed category symbol: | |
| 5.5.1. | nominal | : M |
| 5.5.2. | additional (if applicable) | : --- |

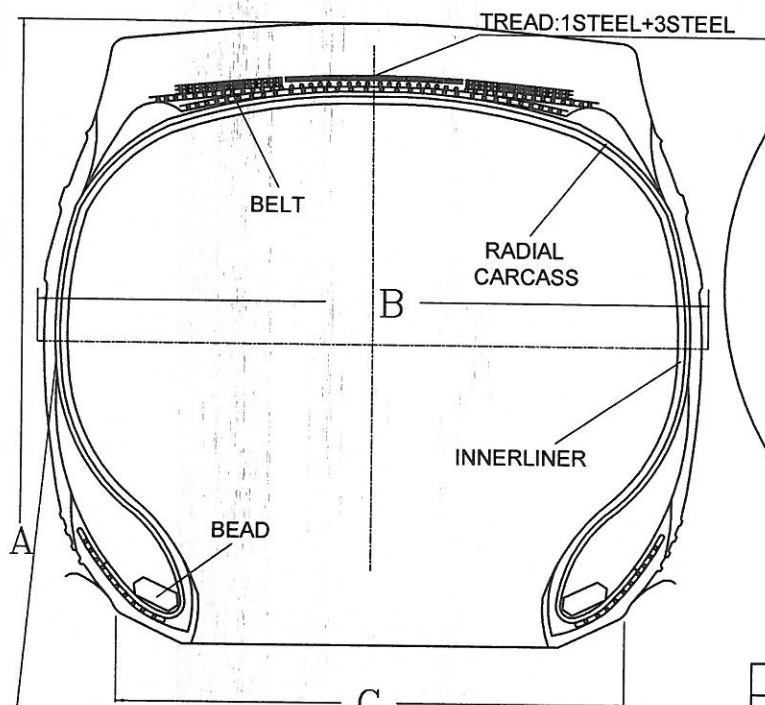
- 5.6. Load-capacity indices:
- 5.6.1. Corresponding to nominal speed:
- single : 154
 - twinned (dual) : 150
- 5.6.2. Corresponding to additional speed:
- single : ---
 - twinned (dual) : ---
6. Technical service and, where applicable, test laboratory approved for purposes of approval or of verification of conformity : TÜV Rheinland Kraftfahrt GmbH
Technologiezentrum Verkehrssicherheit
Typprüfstelle Fahrzeuge/Fahrzeugteile
Am Grauen Stein
D-51105 Köln (Poll)
7. Date of report issued by that service : November 10, 2015
8. Number of report issued by that service : 86-R54-3695/15-00
9. Reason(s) of extension (if applicable) : addition of trade mark and tyre type designation
10. Any remarks : ---
11. Place : Zoetermeer
12. Date : 27-NOV-2015
13. Signature :



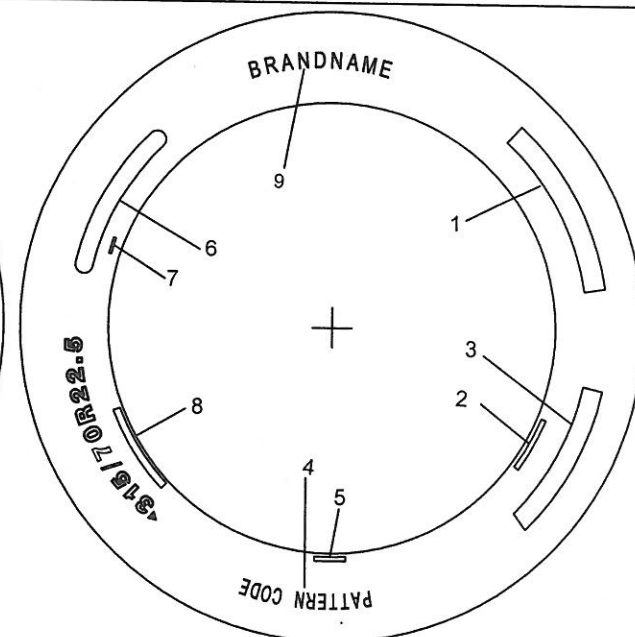
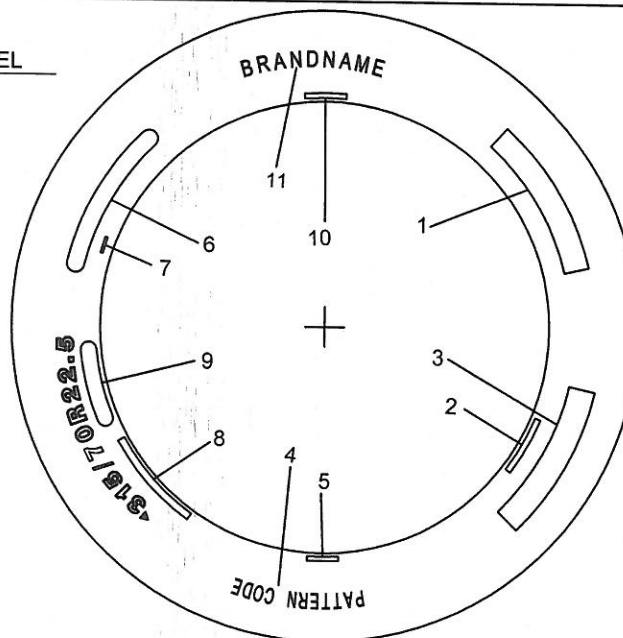
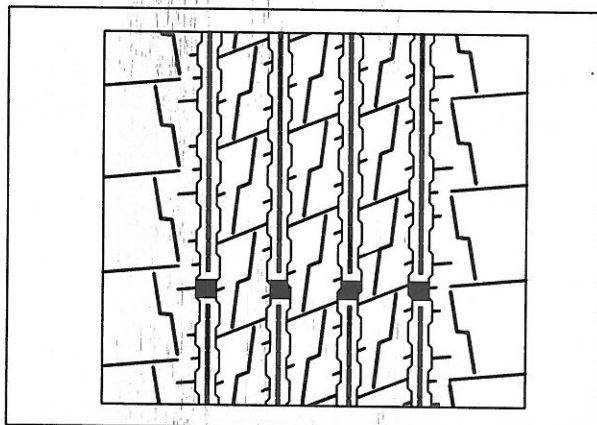
R.F.R. Clement

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.

⁽¹⁾ Strike out what does not apply.



SIDEWALL: 1STEEL PROJECTION



BOTTOM SIDEWALL

	BOTTOM SIDEWALL
1	ALL STEEL RADIAL TIRE REGROOVABLE
2	STANDARD RIM 9.00
3	WARNING:
4	SR276
5	TUBELESS
6	154/150 M 18PR LOAD RANGE J PLIES:SIDEWALL 1 STEEL; TREAD 1 STEEL + 3 STEEL MAX LOAD SINGLE 3750 Kg(8270 LBS) AT 900 Kpa(130 PSI) COLD MAX LOAD DOUBLE 3350 Kg(7385 LBS) AT 900 Kpa(130 PSI) COLD
7	***** (MOULD CODE)
8	DOT 66 RA BB31**** (****--DATE CODE)
9	(E4)*****
10	MADE IN CHINA
11	SIERRA

TOP SIDEWALL

	TOP SIDEWALL
1	ALL STEEL RADIAL TIRE REGROOVABLE
2	STANDARD RIM 9.00
3	WARNING:
4	SR276
5	TUBELESS
6	154/150 M 18PR LOAD RANGE J PLIES:SIDEWALL 1 STEEL; TREAD 1 STEEL + 3 STEEL MAX LOAD SINGLE 3750 Kg(8270 LBS) AT 900 Kpa(130 PSI) COLD MAX LOAD DOUBLE 3350 Kg(7385 LBS) AT 900 Kpa(130 PSI) COLD
7	***** (MOULD CODE)
8	DOT 66 RA BB31**** (****--DATE CODE)
9	SIERRA

315/70R22.5	154/150	M	TL	1014	312	228.6	15.5
TIRE SIZE	LOAD INDEX	SPEED SYMBOL	TYPE	A (mm)	B (mm)	C (mm)	SKID DEPTH (mm)

DRAWN BY 姚文 CHECKED BY 赵吉明 APPROVED BY 李和 XINGYUAN TIRE GROUP Co.,Ltd.



Tyre size : 315/70R22.5
Manufacturer : Xingyuan Tire Group Co., Ltd.

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...

Approval Status

ECE – certificate : E4-54R-0028677 Ext. 02

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 : 315/70R22.5
 Manufacturer : Xingyuan Tire Group Co., Ltd.

0. General Information

- 0.1. Trade name or mark(s) : HUALU; ANNAITE; HILO; QIANGWEI; GUANGDA; GUOBAO; ANGUANGDA; BENTENG; AMBERSTONE; AUFINE; SIERRA
- 0.2. Tyre type designation(s) by the manufacturer : 366; AF177; SR276
- 0.3. Tyre size designation : 315/70R22.5
- 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 : ---
-Date of issue : May 18, 2014
-Date of last change : October 27, 2015

1. Tested object(s)

- 1.1. Object markings
- Trade name or mark : ANNAITE
- Tyre type designation : 366
- Plies of Tread / Sidewall : 4 STEEL / 1 STEEL
- Tyre size designation : 315/70R22.5
- 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: 154 twinned: 150
- corresponding to supplementary speed : single: --- twinned: ---
- Index of inflation pressure for testing : 130 PSI
- Ply-rating number : 18 PR
- Word in case of without inner tube : word "TUBELESS"
- Word in case of tyre can be regrooved : word "REGROOVABLE"
- Inscription in case of Free Rolling Tyre or Traction Tyre : n/a



Tyre size : 315/70R22.5
 Manufacturer : Xingyuan Tire Group Co., Ltd.

- Date of manufacture : 5013
- 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.

2.2.1. Dimension measurement according to Annex 6

- Measuring rim : 9.00 x 22.5
- Inflation pressure after mounting on measuring rim : 9.0 bar
- Inflation pressure before conditioning : 9.0 bar
- Conditioning of tyre : more than 24 hours
- Inflation pressure after conditioning : 9.0 bar
- Overall width at six equally spaced points
- | | |
|-------------|-------------|
| 1. 309.7 mm | 4. 309.6 mm |
| 2. 310.3 mm | 5. 309.9 mm |
| 3. 310.1 mm | 6. 310.1 mm |
- Max.: 310.3 mm
- Circumference : 3186 mm
- Outer diameter : 1014.1 mm
- Tread depth / void to fill ratio in case of special use tyre : n/a

2.2.2. Load/speed performance test according to Annex 7

- Test machine : TJR-2-TB(Y)
- Diameter of test drum : 1.707 m
- Test rim : 9.00 x 22.5
- Inflation pressure before conditioning : 9.0 bar
- Conditioning of tyre : more than 3 hours



Tyre size : 315/70R22.5
Manufacturer : Xingyuan Tire Group Co., Ltd.

Test-room temperature	:	24 ~ 27°C			
Inflation pressure after conditioning	:	9.0 bar			
Circumference before testing	:	3186 mm			
Outer diameter	:	1014.1 mm			
100% load corresponding to L.I.(single)	:	3750 kg			
Step	Step duration	Total duration	Actual speed	Test Load	
	[h]	[h]	[min⁻¹]	[%]	[kg]
1.	7	7	225	66	2475
2.	16	23	225	84	3150
3.	24	47	225	101	3787.5
Conditioning after testing	:	more than 6 hours			
Circumference after conditioning, after testing	:	3191 mm			
Outer diameter	:	1015.7 mm			
Difference outer diameter before and after testing (max. 3.5 %)	:	1.6 mm			
	:	0.16 %			
Inspection after test	:	The tyre does not exhibit tread separation, ply separation, cord separation, chunking or broken cords.			
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	:	December 11 - 14, 2013			
2.4. Remarks	:	The results of test refer to report No.: 86-R54-1602/14-00 corresponding to type approval No.: E4-54R-0028677 Ext. 01			

3. List of Appendices

Appendix 0 : List of modifications



Tyre size : 315/70R22.5
Manufacturer : Xingyuan Tire Group Co., Ltd.

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, / November 10, 2015
SR / YZ



Su Rui
Expert Technical Service



Tyre size : 315/70R22.5
Manufacturer : Xingyuan Tire Group Co., Ltd.

List of modifications

Appendix 0

Correction of : ---

Modification of : ---

Addition of : trade mark and tyre type designation

Deletion of : ---

