

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

- | | | |
|------------------------------------------------------------------------|---|---------------------------------------------------------------------------------------------------------------|
| 1. Manufacturer's name or trade mark | : | HUALU; ANNAITE; HILO; XINGYUAN; AMBERSTONE; FULLRUN; ANTYRE; |
| 2. Tyre type designation by the manufacturer | : | 366; SL366; TB906; |
| 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 | : | 285/70R19.5 |
| 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: 146, twinned (dual): 144 |
| 5.5.2. corresponding to additional speed | : | single: ---, twinned (dual): --- |
| 6. Overall dimensions | : | ETRTO/calculated/Annex 5 |
| overall section width | : | 283 |
| outer diameter | : | 895 |
| 7. Factor 'x' | : | not applicable |
| 8. Ply-rating number for diagonal (bias ply) tyres | : | 16 |
| 9. Rims on which the tyre can be mounted | : | 8.25 |
| 10. Measuring rim and test rim | : | see attached test report |
| 11. State whether the tyre is | : | tubeless/tube-type |
| 12. Inflation pressure and index for measuring and testing | : | see attached test report |
| 13. Submitted for approval on (date) | : | October 8, 2012 |

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 :

[Handwritten signature]
.....

Name: Song Xiang'an

THIS APPLICATION IS ACCOMPANIED BY:

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





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- ~~approval withdrawn~~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-0026354

Extension number: 00


Approval mark:



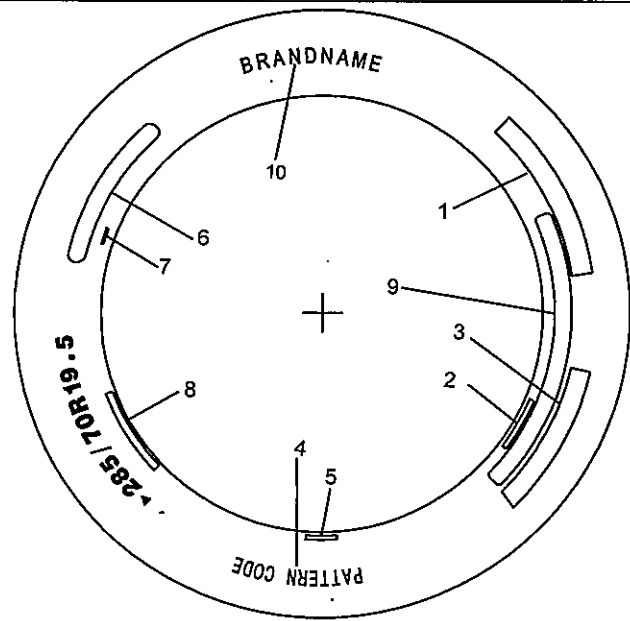
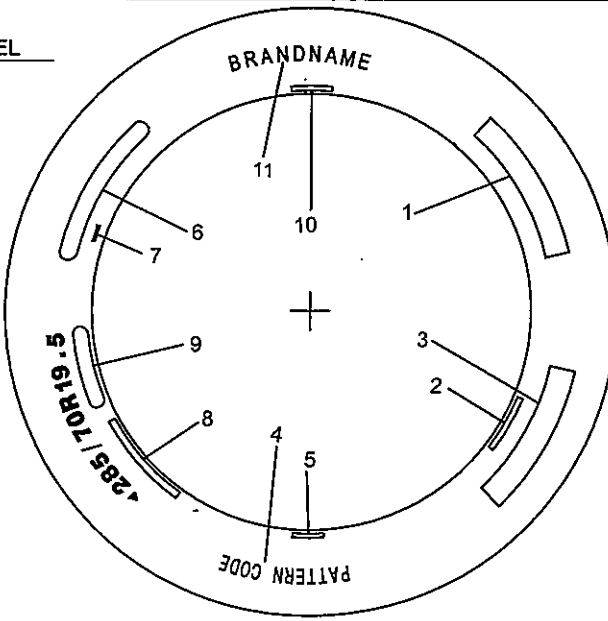
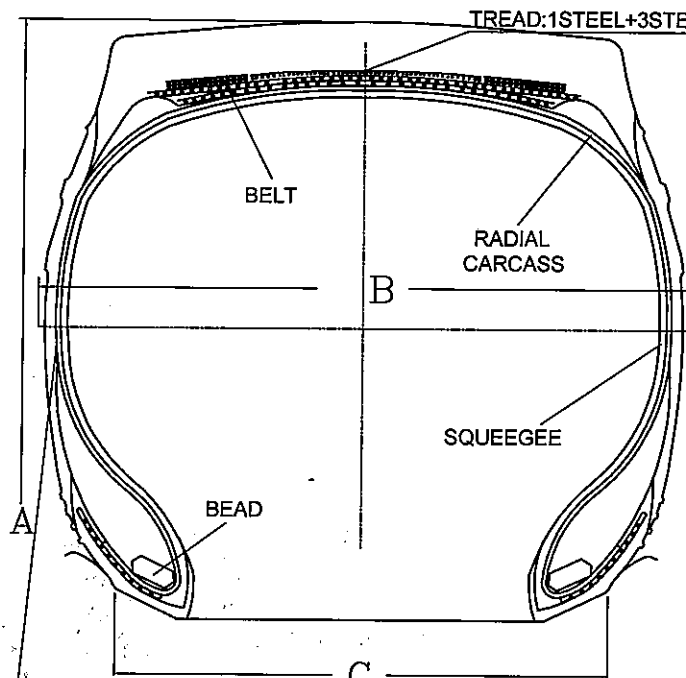
0026354

- | | | |
|------|-------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------|
| 1. | Manufacturer's name or trade mark(s) on the tyre type | : HUALU; ANNAITE; HILO; XINGYUAN; AMBERSTONE; FULLRUN; ANTYRE |
| 2. | Tyre type designation by the manufacturer | : 366; SL366; TB906 |
| 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 | : 285/70R19.5 |
| 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 : M
- 5.4.2. additional (if applicable) : ---
- 5.5. Load-capacity indices:
- 5.5.1. Corresponding to nominal speed:
- single : 146
 - twinned (dual) : 144
- 5.5.2. 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 : December 24, 2012
8. Number of report issued by that service : 86-R54-1380/12
9. Reason(s) for extension (if applicable) : not applicable
10. Any remarks : ---
11. Approval : granted/~~extended/refused/withdrawn~~⁽¹⁾
12. Place : Zoetermeer
13. Date : 07-JAN-2013
14. Signature :  **R.F.R. Clement**
15. 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.



BOTTOM SIDEWALL

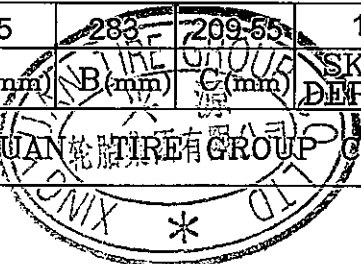
TOP SIDEWALL

| BOTTOM SIDEWALL | | TOP SIDEWALL | |
|-----------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1 | ALL STEEL RADIAL TIRE REGROOVABLE | 1 | ALL STEEL RADIAL TIRE REGROOVABLE |
| 2 | STANDARD RIM 8.25 | 2 | STANDARD RIM 8.25 |
| 3 | WARNING: | 3 | WARNING: |
| 4 | REFER TO ATTACHMENT NO.020-2012 | 4 | REFER TO ATTACHMENT NO.020-2012 |
| 5 | TUBELESS | 5 | TUBELESS |
| 6 | 146/144 M 16PR LOAD RANGE H PLIES:SIDEWALL 1 STEEL; TREAD 1 STEEL + 3 STEEL MAX LOAD SINGLE 3000 Kg(6610 LBS) AT 900 Kpa(130 PSI) COLD MAX LOAD DOUBLE 2800 Kg(6175 LBS) AT 900 Kpa(130 PSI) COLD | 6 | 146/144 M 16PR LOAD RANGE H PLIES:SIDEWALL 1 STEEL; TREAD 1 STEEL + 3 STEEL MAX LOAD SINGLE 3000 Kg(6610 LBS) AT 900 Kpa(130 PSI) COLD MAX LOAD DOUBLE 2800 Kg(6175 LBS) AT 900 Kpa(130 PSI) COLD |
| 7 | ***** (MOULD CODE) | 7 | ***** (MOULD CODE) |
| 8 | DOT 66 SM BB28**** (DATE CODE) | 8 | DOT 66 SM BB28**** (DATE CODE) |
| 9 | (E4)***** | 9 | XINGYUAN TYRE GROUP CO., LTD |
| 10 | MADE IN CHINA | 10 | REFER TO ATTACHMENT NO.020-2012 |
| 11 | REFER TO ATTACHMENT NO.020-2012 | | |

TREAD PATTERN
REFER TO ATTACHMENT NO.020-2012

| | | | | | | | |
|-------------|------------|--------------|------|--------|--------|--------|-----------------|
| 285/70R19.5 | 146/144 | M | TL | 895 | 283 | 209-55 | 14 |
| TIRE SIZE | LOAD INDEX | SPEED SYMBOL | TYPE | A (mm) | B (mm) | C (mm) | SKID DEPTH (mm) |

DRAWN BY *[Signature]* CHECKED BY *[Signature]* APPROVED BY *[Signature]* XINGYUAN TYRE GROUP Co., Ltd.



ATTACHMENT NO.020-2012

TIRE SIZE 285/70R19.5 146/144 M

E4 *****

BRANDNAME

PATTERN CODE

TREAD PATTERN

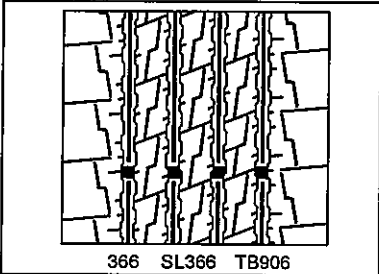
HUALU

366

SL366

ANNAITE

366



XINGYUAN

366

SL366

HILLO

366

AMBERSTONE

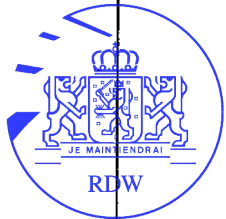
366

FULLRUN

TB906

ANTYRE

TB906



Manufacturer : Xingyuan Tire Group Co., Ltd.
Type : 285/70R19.5



TEST REPORT

According to ECE-Regulation

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

ECE-R54, Amend.00, Suppl. 17

Approval Status

Previously granted
ECE type – approval : ---

Structure of report:

- | Item No. | |
|------------|-------------------------|
| 1. | General information |
| 2. | Test object |
| 3. | Test record |
| 4. | List of Appendices |
| 5. | Statement of conformity |
| Appendix 0 | List of modifications |

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.

Manufacturer : Xingyuan Tire Group Co., Ltd.
Type : 285/70R19.5

1. General information

- 1.1. Manufacturer's name and address : Xingyuan Tire Group Co., Ltd.
 Xishui Industrial Zone, Guangrao
 Dongying, Shandong, 257336
 P.R. China
- 1.2. Technical service responsible for carrying out the tests : TÜV Rheinland Kraftfahrt GmbH
 Technologiezentrum Verkehrssicherheit
 Typprüfstelle Fahrzeuge/Fahrzeugteile
 Am Grauen Stein
 D-51105 Köln (Poll)
- 1.3. Type : 285/70R19.5
- 1.4. Trade mark(s) : HUALU; ANNAITE; HILO; XINGYUAN;
 AMBERSTONE; FULLRUN; ANTYRE
- 1.5. Tread pattern name(s) : 366; SL366; TB906
- 1.6. No. of the information folder : ---
 - Date of issue : ---
 - Date of last change : ---

2. Test object

- 2.1. Markings
- 2.1.1. Trade mark : ANNAITE
- 2.1.2. Tread pattern name : 366
- 2.1.3. Plies
- Tread : 1 STEEL + 3 STEEL
- Side wall : 1 STEEL
- 2.1.4. Size designation : 285/70R19.5
- 2.1.5. Category of use : Normal
- 2.1.6. Structure : radial
- 2.1.7. Speed category : nominal: M, supplementary: ---
- 2.1.8. Load-Capacity Indices :
 corresponding to nominal speed : single : 146, twinned : 144
 corresponding to supplementary speed : single : ---, twinned : ---
- 2.1.9. Index of inflation pressure for testing : 130 PSI
- 2.1.10. Ply-rating number : 16
- 2.1.11. Indication : tubeless
- 2.1.12. Regroovable : yes
- 2.1.13. Date of manufacture : 1242
- 2.1.14. Identification number : ---
- 2.2. Remarks : all versions of the types as stated in the
 information document are covered with the tested
 test object respectively.

Manufacturer : Xingyuan Tire Group Co., Ltd.
Type : 285/70R19.5

3. Test record

3.1. Equipment for measuring and testing : The test facilities / measurement equipment used were in compliance with the test requirements.

3.2. Test results

Remark concerning extension : n.a.

~~[The type has been tested according to the modification(s) mentioned in item Appendix 0.]~~

~~[The results of previous test are still valid.]~~

3.2.1. Dimension Measurement according to Annex 6

3.2.1.1. Measuring rim : 8.25 x 19.5

3.2.1.2. Inflation pressure : 9.0 bar

3.2.1.3. Inflation pressure (readjusted before conditioning) : 9.0 bar

3.2.1.4. Duration of conditioning of mounted tyre pre-measuring at ambient room temperature : more than 24 hours

3.2.1.5. Inflation pressure (readjusted after conditioning) : 9.0 bar

3.2.1.6. Overall width at six equally spaced points

| | | | | | |
|-------|-------|----|----|-------|----|
| 1. | 281.7 | mm | 4. | 282.1 | mm |
| 2. | 281.5 | mm | 5. | 282.2 | mm |
| 3. | 281.8 | mm | 6. | 281.7 | mm |
| Max.: | 282.2 | mm | | | |

3.2.1.7. Circumference : 2808 mm

3.2.1.8. Outer diameter : 893.8 mm

3.2.2. Load/speed performance test according to Annex 7

3.2.2.1. Test machine : TB-2-TB(Y)

3.2.2.2. Diameter test drum : 1.7 m

3.2.2.3. Test rim : 8.25 x 19.5

3.2.2.4. Conditioning of mounted tyre pre-testing at test-room temperature : more than 3 hours

3.2.2.5. Test-room temperature : 26 °C

3.2.2.6. Inflation pressure (readjusted before conditioning) : 9.0 bar

3.2.2.7. Inflation pressure (readjusted after conditioning) : 9.0 bar

3.2.2.8. Circumference after conditioning, before testing : 2808 mm

3.2.2.9. Outer diameter : 893.8 mm

3.2.2.10. Inflation pressure : 9.0 bar

3.2.2.11. Test drum speed : 225 min⁻¹

3.2.2.12. Corresponding load (100 %) : 3000 kg

| Step | Step-Duration | Total Duration | Actual speed | Load (single) |
|--------------------------------|---------------|-------------------------------------------------------------------------------|---------------|---------------|
| TÜV Rheinland Kraftfahrt GmbH | | Technologiezentrum Verkehrssicherheit | N_R540017.dot | Page 3 of 5 |
| Accreditation: RDW-99050014-05 | | Typprüfstelle Fahrzeuge/Fahrzeugteile Am Grauen Stein, D-51105 Köln (Poll) | | |

Manufacturer : Xingyuan Tire Group Co., Ltd.
Type : 285/70R19.5

| | [h] | [h] | (min ⁻¹) | (%) | (kg) |
|----|-----|-----|----------------------|-----|------|
| 1. | 7 | 7 | 225 | 66 | 1980 |
| 2. | 16 | 23 | 225 | 84 | 2520 |
| 3. | 24 | 47 | 225 | 101 | 3030 |

- 3.2.2.13. Conditioning after testing at test-room temperature : more than 6 hours
 3.2.2.14. Inflation pressure : 9.0 bar
 3.2.2.15. Circumference after conditioning, after testing : 2813 mm
 3.2.2.16. Outer diameter : 895.4 mm
 3.2.2.17. Difference outer diameter before and after testing : 1.6 mm
 (max. 3.5 %) : 0.18%

3.3. Additional information

The results of the test refer exclusively to object mentioned under point 2.1. of this report.

- Test site : Xingyuan Tire Group Co., Ltd.
 Xishui Industrial Zone, Guangrao
 Dongying, Shandong, 257336
 P.R.China
- Test date : October 19-21, 2012
- Remark : ---

4. List of Appendices

- 0 List of modifications

5. Statement of conformity

The information folder and the type described there comply with the requirements mentioned in page 1.

The test laboratory is accredited for the above mentioned tests by the accreditation body of the RDW, Vehicle Technology and Information Centre, as the competent Administrative Department for the Netherlands; Accreditation No: RDW-99050014 -05.

Cologne, December 24, 2012

SR / AY



Dipl.-Ing. Su Rui



Manufacturer : Xingyuan Tire Group Co., Ltd.
Type : 285/70R19.5

List of modifications

Appendix 0

Correction of : ---

Modification of : ---

Addition of : ---

Deletion of : ---