

**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 | : | LANVIGATOR; APLUS; HAOHUATIRE; COMPASAL;
WINDFORCE; CRATOS; MATRAX |
| 2. Tyre type designation by the manufacturer | : | S201; CPS21; WH1020; CRS600+; MTS21; T706; CPT76;
WT3000; CRT888 ; MTT76 ; D801; CPD81; WD2020;
CRD660+; MTD81 |
| 3. Manufacturer's name and address | : | SHANDONG HAOHUA TIRE CO., LTD
Dadi Road West, Xinhai Road North, Houzhen Industry Zone,
Shouguang City, Shandong Province, P.R.China |
| 4. If applicable, name and address of
manufacturer's representative | : | not applicable |
| 5. Summarised description, | | |
| 5.1. Tyre size designation | : | 215/75R17.5 |
| 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: 127, twinned (dual): 124 |
| 5.5.2. corresponding to additional speed | : | single: -----, twinned (dual): ----- |
| 6. Overall dimensions | : | ETRTO/calculated/Annex 5 |
| overall section width | : | 211 |
| outer diameter | : | 767 |
| 7. Factor 'x' | : | 0.77 |
| 8. Ply-rating number for diagonal (bias ply) tyres | : | 16 |
| 9. Rims on which the tyre can be mounted | : | 6.0 |
| 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) | : | Oct 10th, 2015 |
| 14. 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.



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- ~~approval withdrawn~~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-0033819

Extension number: 00

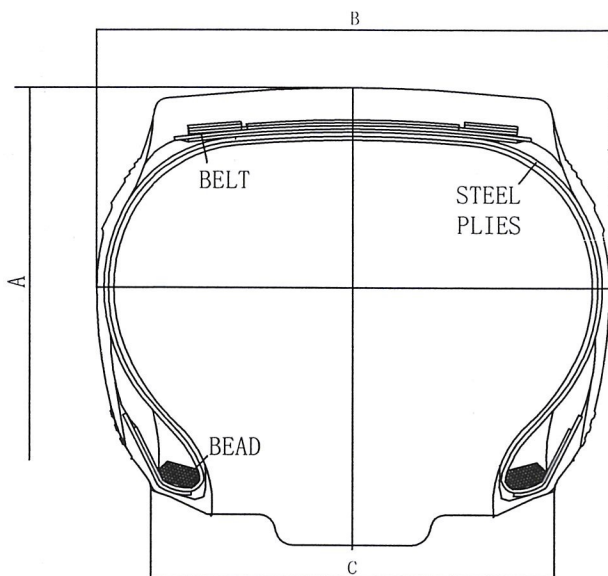
- | | | |
|--------|--|--|
| 1. | Manufacturer's name or trade mark(s) on the tyre type | LANVIGATOR; APLUS; HAOHUATIRE;
: COMPASAL; WINDFORCE; CRATOS;
MATRAX |
| 2. | Tyre type designation by the manufacturer | S201; CPS21; WH1020; CRS600+; MTS21;
: T706; CPT76; WT3000; CRT888; MTT76;
D801; CPD81; WD2020; CRD660+; MTD81 |
| 3. | Manufacturer's name and address | : SHANDONG HAOHUA TIRE Co., Ltd.
Dadi Road West, Xinhai Road North, Houzhen
Industry zone, Shouguang city, Shandong
Province, P.R.China |
| 4. | If applicable, name and address of the manufacturer's representative | not applicable
: |
| 5. | Summarized description: | |
| 5.1. | Size of tyre | : 215/75R17.5 |
| 5.2. | Category of use | : normal /snow/ special ⁽¹⁾ |
| 5.3. | Structure | : diagonal (bias ply) /radial ⁽¹⁾ |
| 5.4. | Tyre class | : E2 /C3 ⁽¹⁾ |
| 5.5. | Speed category symbol: | |
| 5.5.1. | nominal | : M |



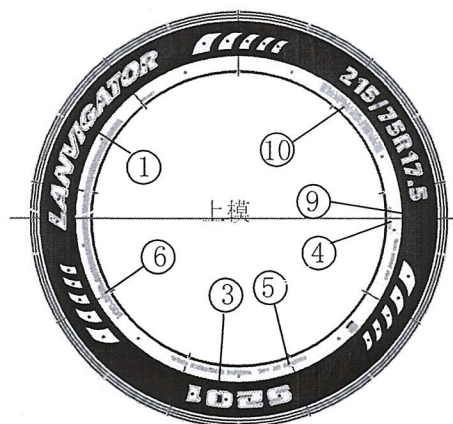
- 5.5.2. additional (if applicable) : ---
- 5.6. Load-capacity indices:
- 5.6.1. Corresponding to nominal speed:
- single : 127
 - twinned (dual) : 124
- 5.5.2. Corresponding to additional speed:
- single : ---
 - twinned (dual) : ---
6. Technical service and, where applicable, test laboratory approved for purposes of approval or of verification of conformity : TÜV NORD Mobilität GmbH & Co. KG
Institut für Fahrzeugtechnik und Mobilität
Adlerstr. 7, D-45307 Essen
7. Date of report issued by that service : Nov 23, 2015
8. Number of report issued by that service : CS054-A0-2015-03282
9. Reason(s) for extension (if applicable) : Not applicable
10. Any remarks : ---
11. Place : Zoetermeer
12. Date : 17-DEC-2015
13. Signature : 
F.L.A. Rodenburg 

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.



PROJECTION



TOP SIDEWALL



BOTTOM SIDEWALL

TREAD PATTERN

REFER TO ATTACHMENT NO. 1

10	TREAD: 1 STEEL + 3 STEEL SIDEWALL:1 STEEL MAX.LOAD SINGLE 1750 kg (3860 LBS) AT 830 KPa (120 PSI) COLD MAX.LOAD DUAL 1600 kg (3525 LBS) AT 830 KPa (120 PSI) COLD							
9	127/124 M 16PR M+S							
8	ECE APPROVAL MARK AND No.							
7	DOT 1P** **** (**** -date code)							
6	SAFETY WARNING							
5	STANDARD RIM 6.00 TUBELESS REGROOVABLE RADIAL							
4	MADE IN CHINA							
3	TREAD PATTERN:S201							
2	REFER TO ATTACHMENT NO. 1							
1	REFER TO ATTACHMENT NO. 1							
	215/75R17.5-16PR	127/124	M	TUBELESS	767	211	152	12
	TYRE SIZE	LOAD INDEX	SPEED SYMBOL	TYPE	A (mm)	B (mm)	C (mm)	SKID DEPTH (mm)



DRAWN BY

乙内内

CHECKED BY

任利利

APPROVED BY

黎范林

SHANDONG HAOHUA TIRE CO. LTD



TREAD PATTERN

REFER TO ATTACHMENT NO. 1

11	M+S TRACTION							
10	TREAD: 1 STEEL + 3 STEEL SIDEWAIL:1 STEEL MAX. LOAD SINGLE 1750 kg (3860 LBS) AT 830 KPa (120 PSI) COLD MAX. LOAD DUAL 1600 kg (3525 LBS) AT 830 KPa (120 PSI) COLD							
9	127/124 M 16PR							
8	ECE APPROVAL MARK AND No.							
7	DOT 1P** **** (**** -date code)							
6	SAFETY WARNING							
5	STANDARD RIM 6.00 TUBELESS REGROOVABLE RADIAL							
4	MADE IN CHINA							
3	TREAD PATTERN:D801							
2	REFER TO ATTACHMENT NO. 1							
1	REFER TO ATTACHMENT NO. 1							
	215/75R17. 5-16PR	127/124	M	TUBELESS	767	211	152	15
	TYRE SIZE	LOAD INDEX	SPEED SYMBOL	TYPE	A (mm)	B (mm)	C (mm)	SKID DEPTH (mm)
任利利		APPROVED BY	SHANDONG HAOHUA TIRE CO. LTD					

Attachment No. 1

Tyre Size: 215/75R17.5-16PR 127/124M		
Approval No: E4-54R-0033819		
Tread Mark		Tread Pattern
LANVIGATOR; APLUS; HAOHUATIRE; COMPASAL; WINDFORCE; CRATOS; MATRAX	S201; CPS21; WH1020; CRS600+; MTS21;	
LANVIGATOR; APLUS; HAOHUATIRE; COMPASAL; WINDFORCE; CRATOS; MATRAX	T706; CPT76; WT3000; MTT76; CRT888	
LANVIGATOR; APLUS; HAOHUATIRE; COMPASAL; WINDFORCE; CRATOS; MATRAX	D801; CPD81; WD2020; CRD660+; MTD81	



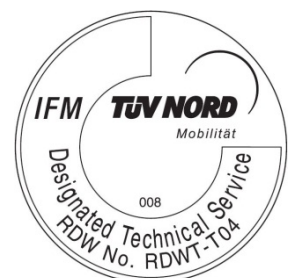
Type : **215/75R17.5**
Manufacturer : **SHANDONG HAOHUA TIRE Co., Ltd.**

Test report according to the Agreement of the United Nations on the approximation of the laws of the Member States relating to the component type approval ECE-R54 of pneumatic tyres for commercial vehicles and their trailers

1. General information

- | | | |
|--|---|---|
| 1.1. Manufacturer's name and address | : | SHANDONG HAOHUA TIRE Co., Ltd.
Dadi Road West, Xinhai Road North,
Houzheng Industry zone, Shouguang city,
Shandong Province, P.R.China |
| 1.2. Trade mark | : | LANVIGATOR; APLUS; HAOHUATIRE;
COMPASAL; WINDFORCE; CRATOS;
MATRAX |
| 1.3. Tread pattern | : | S201; CPS21; WH1020; CRS600+;
MTS21; T706; CPT76; WT3000;
CRT888; MTT76; D801; CPD81;
WD2020; CRD660+; MTD81 |
| 1.4. Size designation | : | 215/75R17.5 |
| 1.5. Category of use | : | snow |
| 1.6. Speed category | : | nominal : M , supplementary:--- |
| 1.7. Load-Capacity Indices
corresponding to nominal speed
corresponding to supplementary speed | : | single : 127, twinned : 124

single : ---, twinned : --- |
| 1.8. Test object received | : | --- |
| 1.9. Test location | : | SHANDONG HAOHUA TIRE Co., Ltd.
Dadi Road West, Xinhai Road North,
Houzheng Industry zone, Shouguang city,
Shandong Province, P.R.China |
| 1.10. Test date | : | Oct 28, 2015 |
| 1.11. Remarks concerning tested object(s) | : | The results of the test refer exclusively
to the object(s) mentioned under item 2.
of this report. |



Type : **215/75R17.5**
 Manufacturer : **SHANDONG HAOHUA TIRE Co., Ltd.**

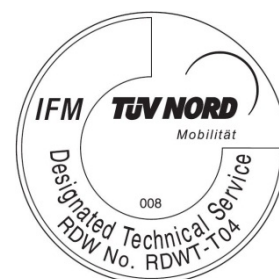
2. Markings

- 2.1. Trade mark : COMPASAL
- 2.2. Tread pattern : CPD81
- 2.3. Size designation : 215/75R17.5
- 2.4. Category of use : snow
- 2.5. Structure : radial
- 2.6. Speed category : nominal : M , supplementary: -
- 2.7. Load-Capacity Indices : single : 127, twinned : 124
 corresponding to nominal speed
 corresponding to supplementary speed : single : ---, twinned : ---
- 2.8. Index of inflation pressure for testing : 120 PSI
- 2.9. Ply-rating number : ---
- 2.10. Indication : tubeless
- 2.11. Regroovable : Yes
- 2.12. Date of manufacture : 4215

3. Measurement according to Annex 6

- 3.1. Measuring rim : 6.00 x 17.5
- 3.2. Inflation pressure : 8.30 bar
- 3.3. Inflation pressure (readjusted before conditioning) : 8.30 bar
- 3.4. Duration of conditioning of mounted tyre pre-measuring at ambient room temperature : more than 24 hours
- 3.5. Inflation pressure (readjusted after conditioning) : 8.30 bar
- 3.6. Overall width at six equally spaced points

1.	205.9	mm	4.	205.6	mm
2.	205.6	mm	5.	205.7	mm
3.	205.7	mm	6.	205.7	mm
Max.:	205.9	mm			



Type : **215/75R17.5**
 Manufacturer : **SHANDONG HAOHUA TIRE Co., Ltd.**

3.7. Circumference : 2413 mm

3.8. Outer diameter : 768.1 mm

4. Load/speed performance test according to ANNEX 7

4.1. load-capacity indices 127/124 , nominal speed M :

4.1.1. Test machine : Machine 1#

4.1.2. Diameter test drum : 1.7 m

4.1.3. Test rim : 6.00 x 17.5

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

4.1.5. Test-room temperature : 25 °C

4.1.6. Inflation pressure (readjusted before conditioning) : 8.30 bar

4.1.7. Inflation pressure (readjusted after conditioning) : 8.30 bar

4.1.8. Circumference after conditioning, before testing : 2413 mm

4.1.9. Outer diameter : 768.1 mm

4.1.10. Inflation pressure : 8.30 bar

4.1.11. Test drum speed : 225 min⁻¹

4.1.12. Corresponding load (100 %) : 1750 kg

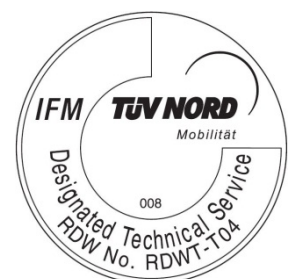


Step	Step-Duration	Total Duration	Actual speed	Load (single)	
	[h]	[h]	(min ⁻¹)	(%)	(kg)
1.	7	7	225	66	1155
2.	16	23	225	84	1470
3.	24	47	225	101	1768

4.1.13. Conditioning after testing at test-room temperature : more than 6 hours

4.1.14. Inflation pressure : 8.30 bar

4.1.15. Circumference after conditioning, after testing : 2433 mm



Type : **215/75R17.5**
Manufacturer : **SHANDONG HAOHUA TIRE Co., Ltd.**

4.1.16. Outer diameter : 774.4 mm
4.1.17. Difference outer diameter before and after testing : 6.3 mm
(max. 3.5 %) : 0.8 %

5. Final Conclusion : Pass / Fail

5.1. Marking : Pass / Fail
5.2. Measurement : Pass / Fail
5.3. Load / Speed performance test : Pass / Fail
Tread separation, ply separation, cord separation, chunking or broken cords : ~~Yes~~ / No

6. Statement of conformity

The type described in this test report and the appendices attached are in compliance with the Test Specification mentioned above.

The Test Report comprises pages 1 to 5.

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

TEST LABORATORY

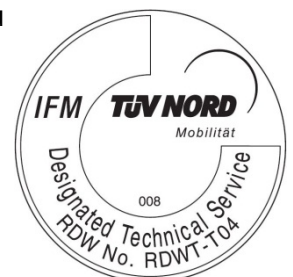
TÜV NORD Mobilität GmbH & Co. KG
IFM - Institut für Fahrzeugtechnik und Mobilität,
Adlerstr. 7, 45307 Essen

Designated Technical Service
RDW No. RDWT-T04

Shanghai, Nov 23, 2015

Patrick Yu

PY/FY
B.S.M.E Patrick Yu



Test Report
No. : CS054-A0-2015-03282
ECE Regulation No.54



Type : **215/75R17.5**
Manufacturer : **SHANDONG HAOHUA TIRE Co., Ltd.**

List of modifications

Appendix 1

More details for application of : **Date** : **Nov 23, 2015**

Correction of : -

Modification of : -

Addition of : -

Deletion of : -

