



THE NETHERLANDS

COMMUNICATION

Concerning ⁽¹⁾:

- approval granted
- ~~approval extended~~
- ~~approval refused~~
- ~~approval withdrawn~~
- ~~production definitely discontinued~~

of a type of tyre with regard to 'rolling sound emission level' and/or 'adhesion performance on wet surfaces' and/or 'rolling resistance' pursuant to Regulation number 117.

Approval number ⁽²⁾: E4*117R04/01*16104*00**Suffix(es)⁽³⁾: 04S2W2R3B**

- | | | |
|--------|---|---|
| 1. | Manufacturer's name and address | : Shandong Yongsheng Rubber Group Co., Ltd.
South of Guangkai Road, Economic
Development Zone, 257300 Guangrao County,
Dongying City, China(PRC) |
| 2. | If applicable, name and address of
manufacturer's representative | : not applicable |
| 3. | "Tyre class" of the type of tyre | : Class C1 |
| 4. | "Category of use" of the type of tyre | : normal / snow / special |
| 4.1. | Snow tyre for use in severe snow
conditions | : yes /no ⁽¹⁾ |
| 4.1.1. | Ice grip tyre | : yes /no ⁽¹⁾ |
| 4.2. | Traction tyre | : yes /no ⁽¹⁾ |
| 5. | Tyre structure | : Radial |
| 6. | Type of tyre designation | |
| 6.1. | Brand name(s)/trademark(s) of the
type of tyre | : Tourador |
| 6.2. | Trade description(s)/ Commercial
name(s) of the type of tyre | : X COMFORT PLUS |



7. Technical service and, where applicable, test laboratory approved for purposes of approval or of verification of conformity tests : TÜV Rheinland Kraftfahrt GmbH
Technischer Dienst
Am Grauen Stein
51105 Köln
Germany
8. Performance(s) approved : rolling sound emission level at (stage 1/stage 2)⁽¹⁾, wet adhesion level of tyres in new state at (stage 1/stage 2) , rolling resistance level at (stage 2/stage 3)⁽¹⁾, snow performance level, icy performance level and wet adhesion level of tyres in worn state
- 8.1. Sound level of the representative tyre size, see paragraph 2.7. of Regulation No. 117, as per item 7. of the test report in Appendix 1 to Annex 3, at reference speed of 70/80 km/h⁽¹⁾. : 325/35ZR23 115Y: 74 dB(A)
- 8.2. Wet adhesion level of tyres in new state of representative tyre size, see paragraph 2.7. of Regulation No. 117, as per the test report examples shown in the appendix to Annex 5 using the vehicle or trailer method⁽¹⁾. : 325/35ZR23 115Y: 1.46(G)
- 8.3. Wet adhesion level of tyres in worn state of representative tyre size, see paragraph 2.7. of Regulation No. 117, as per the test report in the appendix to Annex 9 in the case of class C1 tyres or as per evaluation performed according to paragraph 3. of Annex 9 in the case of classes C2 and C3 tyres using the vehicle or trailer method⁽¹⁾. : 325/35ZR23 115Y: 0.97(G_B)
- 8.4. Rolling resistance level of the representative tyre size, see paragraph 2.7. of Regulation No. 117, as per item 7. of the test report in Appendix 1 to Annex 6. : 265/35ZR22 102Y: 8.42 N/kN
- 8.5. Snow performance level of the representative tyre size, see paragraph 2.7. of Regulation No. 117, as per item 7. of the test report in the appendix⁽⁴⁾ to Annex 7 using the brake on snow method⁽¹⁾, spin traction method⁽¹⁾ or acceleration method⁽¹⁾. : ---
- 8.5.1. Ice performance level of the representative tyre size, see paragraph 2.7. of Regulation No. 117, as per item 7. of the test report in the appendix 2 to Annex 8 using the brake on ice method⁽¹⁾. : ---



9. Number of report issued by that service : 86-R117-2838/24-00
10. Date of report issued by that service : December 23, 2024
11. Reason(s) of extension (if applicable) : ---
12. Any remarks : ---
13. Place : Zoetermeer
14. Date : 12 February 2025
15. Signature :


Uwe Löbig



16. Annexed to this communication are: No. X COMFORT PLUS - 00
- 16.1. A list of documents in the approval file deposited at the Type Approval Authorities having delivered the approval and which can be obtained upon request ⁽⁵⁾.
- 16.2. A list of tyre size designations: Specify for each brand name/trademark and/or each trade description/commercial name the list of tyre size designations and service descriptions, adding in case of Class C1 tyres whether "reinforced" (or "extra load") or not.

⁽¹⁾ Strike out what does not apply.

⁽²⁾ According to Schedule 4 to Revision 3 of the 1958 Agreement.

⁽³⁾ According to paragraphs 5.2.2. and 5.3.1.2. of this Regulation.

⁽⁴⁾ Appendix 2 for C1 and C2 tyres. Appendix 3 for C3 tyres.

⁽⁵⁾ In the case of 'snow tyre for use in severe snow conditions' a test report according to Appendix 2 or Appendix 3, as applicable, to Annex 7 shall be submitted. Additionally in the case of ice grip tyre a test report according to Appendix 2 to Annex 8 shall be submitted.

Statement manufacturer and authorization regarding application

This statement must only be sent with new "00" applications. This applies to both the statements that the application has not been submitted to another authority and the authorization of the applicant. If the authorized party is changed in the meantime (i.e. in case of an extension or correction request), this declaration must be filled in again.

1 **EC & UNECE type-approval number** : E4*117R04/01*16104*00

2 ☒ **Manufacturer/** ☐ **Manufacturer's representative** ⁽¹⁾

3 **Company name** : Shandong Yongsheng Rubber Group Co., Ltd.

4 **Name authorized person** : Mr. Guo Hui

5 **Job title** : Manager

6 **E-mail address** : ys-guohui2008@163.com

7 **Address manufacturer** : South of Guangkai Road, Economic Development Zone, 257300 Guangrao County, Dongying City, China(PRC)

8 **Country** : China(PRC)

9 **Statement**

10 **Hereby** : Mr. Guo Hui ,

11 **declares on behalf of**

the manufacturer : Shandong Yongsheng Rubber Group Co., Ltd. ,

12 **for the application with**

type-approval number : E4*117R04/01*16104*00 ,

13 **the following:**

14 a) the manufacturer has not applied for an EC & UNECE type-approval for the same type to any other approval authority, and no other approval authority granted the manufacturer such an approval;

15 b) no approval authority has refused to grant type-approval of that type;

16 c) no approval authority has withdrawn type-approval of that type;

17 d) the manufacturer has not revoked an application for a type-approval of that type.

18 **Authorization regarding handling of this application (if applicable)** ⁽²⁾

19 **Company name** : TÜV Rheinland Kraftfahrt GmbH

20 **E-mail address** : Mingjun.Wu@tuv.com

21 **Address** : Typprüfstelle Fahrzeuge/Fahrzeugteile, Am Grauen Stein, 51105 Köln

22 **Country** : Germany

23 **Authorization**

24 **By means of this**

declaration, I : Mr. Guo Hui ,

25 **on behalf of**

authorizes : Shandong Yongsheng Rubber Group Co., Ltd. ,

26 **to respectively apply for a type-approval with type-approval number:**

E4*117R04/01*16104*00 ,

27 **handle all communication concerning this application and receive the type-approval certificate.**

29 **Date**

Place

Name:

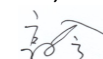
30 December 19, 2024

Dongying, China

Shandong Yongsheng Rubber Group Co., Ltd.

31

On their behalf, signature :



32

Name : Guo Hui

⁽¹⁾ Mark the specific checkbox.

⁽²⁾ This authorization only concerns the application procedure and all activities that are directly or indirectly related to this procedure. If and insofar as other procedures, including the lodging of objections, are deemed necessary, a new authorization must be submitted in respect of that specific procedure.

Information Document: No. X COMFORT PLUS - 00

APPLICATION FOR EXTENSION APPROVAL OF TYRES WITH REGARD TO ROLLING
SOUND EMISSION AND TO ADHESION ON WET SURFACES AND TO ROLLING
RESISTANCE ACCORDING TO REGULATION R117, 04 SERIES OF AMENDMENTS

- 1.1. The performance characteristics to be assessed for the tyre type : Rolling sound emissions level and/or adhesion performance level on wet surfaces and/or rolling resistance level
- 1.2. Manufacturer's name : Shandong Yongsheng Rubber Group Co., Ltd.
- 1.3. Name and address of applicant : Shandong Yongsheng Rubber Group Co., Ltd.
South of Guangkai Road Economic Development Zone
257300 Guangrao County, Dongying City
China (PRC)
- 1.4. Address(es) of manufacturing plant(s) : The same as the applicant
- 1.5. Brand name(s)/trademark(s), trade description(s)/commercial name(s) : Tourador

X COMFORT PLUS
- 1.6. Tyre class : Class C1 / ~~Class C2~~ / ~~Class C3~~
- 1.7. Category of use : ~~Normal~~ / ~~Special~~ / Snow/
- 1.7.1 Snow tyre for use in severe snow conditions ~~Yes~~ / No
- 1.7.2 For Class C1 tyres, whether ice grip tyre ~~Yes~~ / No
- 1.7.3 For Classes C2 and C3 tyres, whether traction tyre ~~Yes~~ / No
- 1.8. Tyre structure : ~~Diagonal~~ / ~~Bias belted~~ / Radial*
- 1.9. A list of tyre size designation covered by this application : See attached "list of tyre sizes" (page 3 of 8)

- 2.1. Details of major features, with respect to the effects on the performance. (i.e. rolling sound emission level, adhesion on wet surfaces, rolling resistance and snow grip) of the tyres, including the tread pattern, included in the designated range of tyre sizes. This may be drawing, photograph or description, but must be sufficient to allow the type approval authority or technical service to determine whether any subsequent changes to the major features will adversely affect the tyre performance. : See drawing No : Tread pattern
- 2.2. Drawing or photographs of the sidewall, showing the information given in paragraph 3.1.5. above and the approval marking referred to in paragraph 5. : See drawing No : Drawing of the sidewall
- 3.1 Date of the information document : 2024-12-20

Manufacturer's stamp



Signature:

Name: Wang YongJun

This application is accompanied by:

- List of tyre sizes.
- Drawing of tread pattern.
- Drawing of the side wall of the tyre.
- The test report.

LIST OF TYRE SIZES

Brand name or trade mark: Tourador

Tread pattern: X COMFORT PLUS

Size	Approval No.	Limit for rolling sound dB(A) of Stage II	Limit for wet grip index(G)	Limit for rolling resistance coefficient (N/kN) of Stage II	Limit for wet grip index (G _B) in worn state
215/60R17 100HXL	E4-0296231	72	1.2	9.0	0.88
225/60R17 99H	E4-0296204	71	1.2	9.0	0.88
225/65R17 102H	E4-0296201	71	1.2	9.0	0.88
235/65R17 108VXL	E4-0296198	72	1.2	9.0	0.88
225/60R18 100V	E4-0296211	71	1.2	9.0	0.88
235/60R18 107VXL	E4-0296249	72	1.2	9.0	0.88
255/45ZR20 105YXL	E4-02127451	73	1.2	9.0	0.88
275/40ZR20 106YXL	E4-02117440	73	1.2	10.0	0.88
275/50ZR21 113YXL	E4-02146549	73	1.2	9.0	0.88
315/40ZR21 115YXL	E4-02114280	75	1.2	10.0	0.88
265/35ZR22 102YXL	E4-02117433	73	1.2	10.0	0.88
265/40ZR22 106YXL	E4-02117435	73	1.2	10.0	0.88
275/40ZR22 108YXL	E4-02130383	73	1.2	10.0	0.88
285/35ZR22 106YXL	E4-02117447	75	1.2	10.0	0.88
285/40ZR22 110YXL	E4-02117449	75	1.2	10.0	0.88
315/35ZR22 111YXL	E4-02146555	75	1.2	10.0	0.88
285/40ZR23 111YXL	E4-02146552	75	1.2	10.0	0.88
325/35ZR23 115YXL	E4-02146556	75	1.2	10.0	0.88

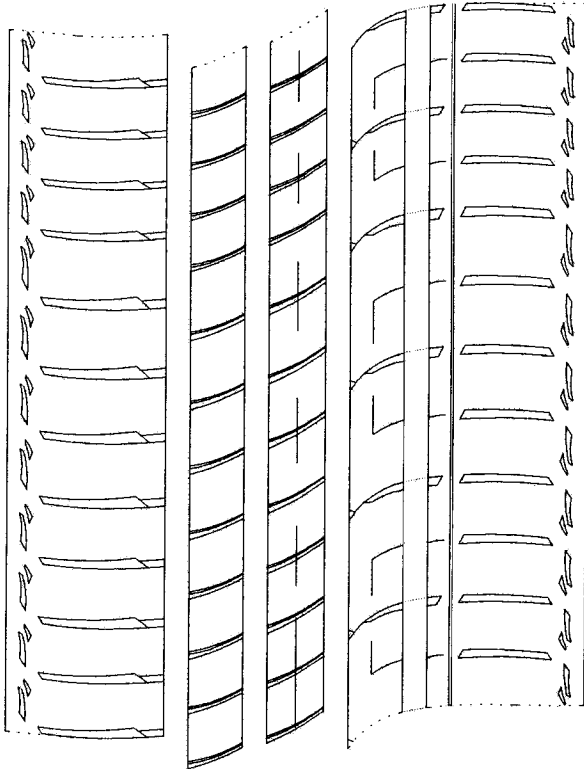
Remark:

- (1) The tread pattern may be named as X COMFORT PLUS according to the manufacturer request.
- (2) For the tread pattern X COMFORT PLUS with completely the same pattern designing.

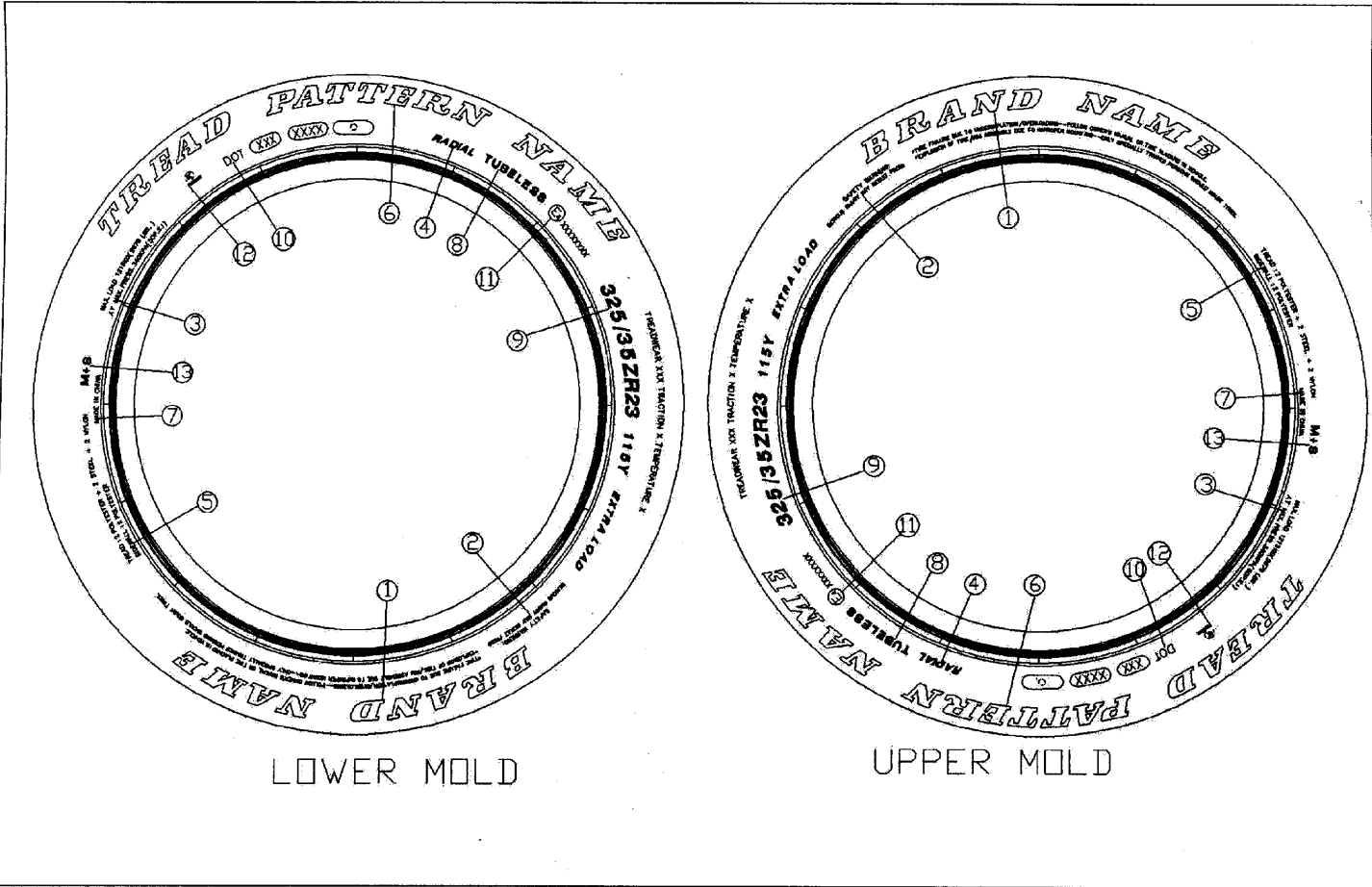
Worst Case Selection for Testing Tire	
Test size for rolling sound:	325/35ZR23 115YXL
Because of:	Largest section width
Test size for wet grip in new state:	325/35ZR23 115YXL
Because of:	Any tyre size that meets ten percent (10%)
Test size for rolling resistance:	265/35ZR22 102YXL
Because of:	Lowest load index
Test size for wet grip in worn state:	325/35ZR23 115YXL
Because of:	Largest section width

Insert here:

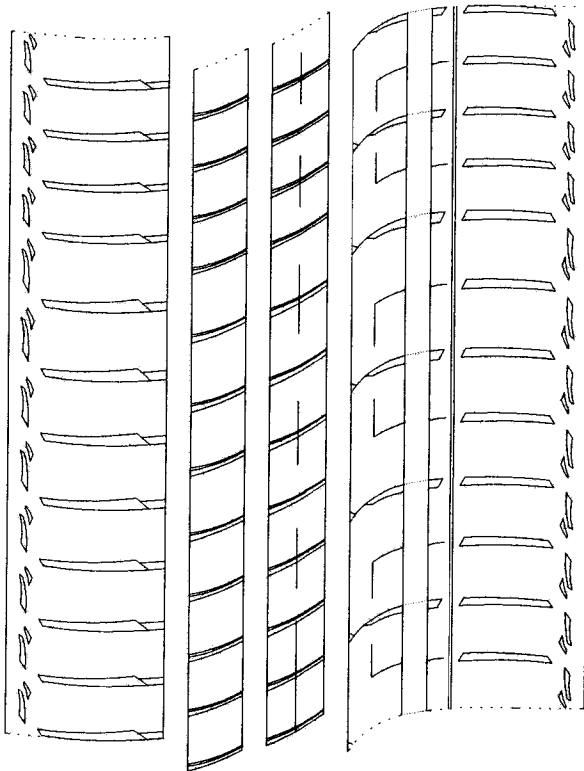
Drawing (and/ or photograph) of the tread pattern including detailed information (pitch number, groove area ratio, width and depth of main/centre shoulder grooves)

Manufacturer name Pattern name Tyre Sizes Market	Shandong Yongsheng Rubber Group Co., LTD. X COMFORT PLUS 325/35ZR23 115YXL EU/CN/US/America/Africa
Pitch number Pitch ratio	46 0.85/0.92/1.00/1.08/1.15
Void volume [%] Width: main grooves [mm] Depth: center groove [mm] Depth: shoulder groove [mm]	30 15.9/15.9/15.9/15.9 7.2 4.3
Pattern	

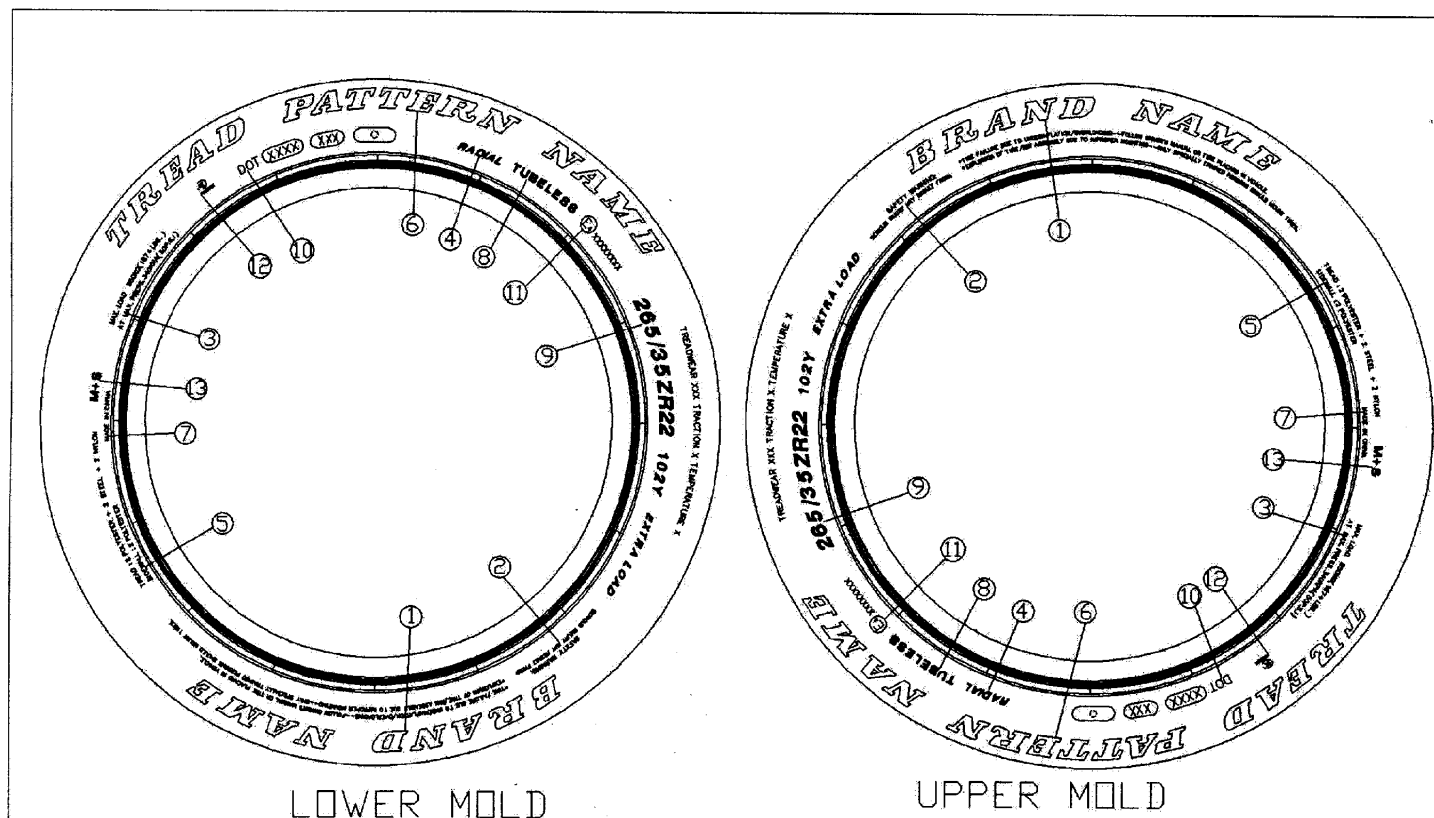
Drawing of the side wall: 325/35ZR23 115YXL



1	Tourador
2	SAFETY WARNING
3	MAX. LOAD 1215KG (2679LBS.) AT MAX. PRESS. 340KPA(50P.S.I.)
4	RADIAL
5	TREAD : 2 POLYESTER + 2 STEEL + 2 NYLON SIDEWALL : 2 POLYESTER
6	X COMFORT PLUS
7	MADE IN CHINA
8	TUBELESS
9	325/35ZR23 115Y EXTRA LOAD
10	DOT XXX XXXX (DATE CODE)
11	(E4) 0416104 S2W2R3B 02146556
12	CCC
13	M+S

Manufacturer name Pattern name Tyre Sizes Market	Shandong Yongsheng Rubber Group Co., LTD. X COMFORT PLUS 265/35ZR22 102YXL EU/CN/US/America/Africa
Pitch number Pitch ratio	46 0.85/0.92/1.00/1.08/1.15
Void volume [%] Width: main grooves [mm] Depth: center groove [mm] Depth: shoulder groove [mm]	30 12.9/12.9/12.9/12.9 7.2 4.3
Pattern	

Drawing of the side wall: 265/35ZR22 102YXL



1	Tourador
2	SAFETY WARNING
3	MAX. LOAD 850KG (1874LBS.) AT MAX. PRESS. 340KPA(50P.S.I.)
4	RADIAL
5	TREAD : 2 POLYESTER + 2 STEEL + 2 NYLON SIDEWALL : 2 POLYESTER
6	X COMFORT PLUS
7	MADE IN CHINA
8	TUBELESS
9	265/35ZR22 102Y EXTRA LOAD
10	DOT XXXX XXX (DATE CODE)
11	(E4) 0416104 S2W2R3B 02117433
12	CCC
13	M+S

Type : X COMFORT PLUS
Manufacturer : Shandong Yongsheng Rubber Group Co., Ltd.

TEST REPORT

according to UN-Regulation

Uniform Provisions concerning the Approval of Tyres with regard to Rolling Sound Emissions and to Adhesion on Wet Surfaces and/or to Rolling Resistance

UN Regulation No. 117

including all amendments until

Amend.04, Suppl. 01

Approval Status

UN approval : ---

Structure of report :

Item No.

0. General information

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

2. Tested record

3. List of appendices

4. Statement of conformity

The Test Report shall be reproduced and published only in its entirety by the client. It may however be reproduced and published partially, but only with the written permission of the Technical Service.

Test Report No. 86-R117-2838/24-00

Type : **X COMFORT PLUS**
Manufacturer : **Shandong Yongsheng Rubber Group Co., Ltd.**

0. General information

- 0.1. Make (trade name of the manufacturer) : Shandong Yongsheng Rubber Group Co., Ltd.
- 0.2. Type : X COMFORT PLUS
- 0.3. Category of vehicle : Not applicable
- 0.4. Name and address of the manufacturer : Shandong Yongsheng Rubber Group Co., Ltd.
South of Guangkai Road, Economic Development Zone, 257300 Guangrao County, Dongying City, China(PRC)
- 0.5. No. of the information folder : No. X COMFORT PLUS - 00
 -Date of issue : December 20, 2024
 -Date of last change : ---

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

- 1.1. Description
 - 1.1.1. ~~Vehicle~~/ object
 - Commercial description : Not applicable
 - Type(s) /~~variant(s)~~ /~~version(s)~~ : X COMFORT PLUS
 - 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 "worst case configuration" (WCC) has to be done according to type approval process (MS-0000480), section 5.6. and RDW Announcement for Manufacturers and Technical Services number: 2023-04[Regulation R117], the description was mentioned in No. II [Worst case selection] of information folder No. No. X COMFORT PLUS - 00

~~No worst case assessment required (only one variant/version or no variants/versions)~~

~~There is no worst case selection applicable because all versions mentioned in the information folder are tested.~~

~~Paperwork extension, please see previous test report(s) for worst case information.~~
- 1.3. Remarks : All versions of the types as stated in the information folder are covered by the tested object(s) respectively.

Test Report No. 86-R117-2838/24-00

Type : **X COMFORT PLUS**
Manufacturer : **Shandong Yongsheng Rubber Group Co., Ltd.**

2. Tested 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 : See Appendix 1
- 2.1.2. Subcontracting
- Tyre noise : Not applicable
 - Wet grip of new tyres : Not applicable
 - Rolling resistance : Not applicable
 - Snow performance : Not applicable
 - Ice performance for Class C1 : Not applicable
 - Wet grip of tyres in worn state : Not applicable
- 2.2. Test results : See appendix 1
- Numbering according to Paragraph 6. and 7. of the UN-R117
- 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 : See Appendix 1
- Test date : See Appendix 1
- 2.4. Remarks : Not applicable

Type : X COMFORT PLUS
Manufacturer : Shandong Yongsheng Rubber Group Co., Ltd.

3. List of Appendices

Appendix 0 : List of modifications
Appendix 1 : Test minutes

4. Statement of conformity

The Information Document listed in section 0.5., and the type described therein, comply with the requirements stated on page 1.

The test results in this report refer to the ~~vehicle(s)~~ object(s) described under section 1.1.

With regards to the required level of performance to be achieved, the tested samples were representative for the type to be approved (see section 1.2).

Qingdao / December 23, 2024
WMJ



Mingjun Wu
Technical Expert Technical Service

Type : X COMFORT PLUS
Manufacturer : Shandong Yongsheng Rubber Group Co., Ltd.

List of modifications

Appendix 0

Correction of : ---

Modification of : ---

Addition of : ---

Deletion of : ---

Test Report No. 86-R117-2838/24-00

Type : X COMFORT PLUS
 Manufacturer : Shandong Yongsheng Rubber Group Co., Ltd.

Test minutes

Appendix 1

1. Tyre noise measurements

- 1.1. Date of test : December 17, 2024
- 1.2. Test vehicle
 Make and vehicle name : GREATWALL, CC1030QS20A
 Wheelbase : 3230 mm (<3500 mm for C1, <5000 mm for C2 and C3)
- 1.3. Location of test track : Tuanbo Town, Jinghai County, Tianjin, P.R. China
 Date of track certification to ISO10844:2014 : Calibration report No.202406007, June 05, 2024
 Issued by : Hebei Road & Bridge Engineering Test Co., Ltd
 Method of certification : Sound absorption coefficient; mean profile depth; irregularity
- 1.4. Test tyre details
 Tyre brand and trade description : Tourador / X COMFORT PLUS
 Tyre type : 325/35ZR23 115Y
 Tyre structure : Radial
 Category of use : Snow
 Tyre class : C1
 State whether the tyre is : ~~Standard~~ / Reinforced
 Manufacturing date code : 4524
- 1.5. Test data
 Reference load : 1215 kg
 Reference inflation pressure : 290 kPa
 Reference speed : ~~70~~ / 80 km/h

	Front left	Front right	Rear left	Rear right	Q _{t, avg}
Test mass (kg)	710	742	985	991	857
Tyre load index (%)	58.4%	61.1%	81.1%	81.6%	70.5%
Inflation pressure (cold) (kPa)	160	170	240	240	\

Test rim width code : 11.5 × 23

Temperature measurement sensor type : FLUKE 59E&TESTO

Valid Test results :

Test Report No. 86-R117-2838/24-00

Type : X COMFORT PLUS
Manufacturer : Shandong Yongsheng Rubber Group Co., Ltd.

Running No.	Speed km/h	Direction of run	Sound Level Measured dB(A)		Air Temp. °C	Track Temp. °C	Sound Level Measured dB(A)		Comments
			Left	Right			Left Temp. correction	Right Temp. correction	
1	72.3	E-W	75.1	75.5	8.9	6.1	74.3	74.7	---
2	74.1	W-E	75.9	75.6	9.0	6.1	75.1	74.8	---
3	76.6	E-W	76.1	76.3	9.0	6.2	75.3	75.5	---
4	78.2	W-E	76.0	76.0	9.0	6.1	75.2	75.2	---
5	82.1	E-W	77.1	76.9	9.0	6.2	76.3	76.1	---
6	84.3	W-E	77.6	77.5	9.0	6.2	76.8	76.7	---
7	86.1	E-W	78.1	77.9	9.0	6.1	77.3	77.1	---
8	87.8	W-E	78.3	78.4	9.0	6.2	77.5	77.6	---
Limit value	70~90	---	---	---	5 ~ 40	5 ~ 50	---	---	---

Regression line slope : 35.46
 Sound level according to paragraph 4.2. of annex 3 : 75.94 dB(A)
 Final result according to paragraph 4.4. of annex 3 : **74 dB(A)**
 Limit Value for C1 (Stage 2) : 75 dB(A)

Test Report No. 86-R117-2838/24-00

Type : X COMFORT PLUS
Manufacturer : Shandong Yongsheng Rubber Group Co., Ltd.

2. Tyre wet grip of new tyre measurements

- 2.1. Date of test : December 16, 2024
- 2.2. Test vehicle : FORD trailer
- 2.3. Location of test track : Tuanbo Town, Jinghai County, Tianjin, P.R. China
- Test track characteristics : Calibration report No.202406007, June 05, 2024
- Issued by : Hebei Road & Bridge Engineering Test Co., Ltd.
- Method of certification : BPN / ASTM E 965
- Texture depth (mm) : 0.49
- $\mu_{\text{peak,corr}}$: 0.857
- Water depth (mm) : 1.2 (0.5 to 2.0)
- 2.4. Identification of the SRTT : APXO B2UU 4622
- 2.5. Valid test results : Trailer method

		SRTT (before)	Candidate (1 / 2)	SRTT (after)
Tyre dimensions		P225/60R16 97S	325/35ZR23 115Y	P225/60R16 97S
Rim width		6.5J	11.5J	6.5J
Tyre identification		SRTT	Tourador / X COMFORT PLUS	SRTT
Category of use		/	Snow	/
Tyre class		/	C1	/
Standard or Reinforced		/	Reinforced	/
Manufacturing date code		4622	4524	4622
Average load (kg)		550	886	565
Pressure (kPa)		180	220	180
μ_{peak}	1	0.711	0.841	0.716
	2	0.709	0.866	0.724
	3	0.700	0.861	0.711
	4	0.716	0.862	0.739
	5	0.713	0.874	0.715
	6	0.708	0.856	0.728
Average μ_{peak}		0.710	0.860	0.722
Standard deviation, $\sigma\mu$		0.005	0.011	0.010
$CV\mu \leq 4 \%$		0.771	1.289	1.432
$CV\mu(\mu_{\text{peak}}) \leq 5 \%$		1.769		
$\mu_{\text{peak,corr}}(R)$		0.687	---	0.699
$\mu_{\text{peak,adj}}(R)$		---	0.714	---

Test Report No. 86-R117-2838/24-00

Type : X COMFORT PLUS
Manufacturer : Shandong Yongsheng Rubber Group Co., Ltd.

Wet grip index G(T)	---	1.46	---
Ambient temp. (°C)	10.6	10.8	10.4
Ground temp. (°C)	8.6	8.8	8.5
Initial speed(km/h)	65±2	65±2	65±2
Limit value for C1 (Stage II)	1.2		

Test Report No. 86-R117-2838/24-00

Type : **X COMFORT PLUS**
Manufacturer : **Shandong Yongsheng Rubber Group Co., Ltd.**

3. Rolling resistance measurements

3.1.1.	Date of test	:	December 16, 2024	
3.1.2.	Test site	:	No.77, Keyuan Weisi Road, Laoshan District, Qingdao, Shandong, China	
3.1.3.	Test machine information			
	Make / type	:	Tianjin Jiurong Wheel Tech. Co., Ltd. / TJR-RR-PC/TB(Y)	
	Applicable test method	:	Force method	
	Diameter (≥1.7m)	:	2.000 m	
	Surface	:	Smooth steel / Textured surface	
	Test machine alignment with	:	Continental Reifen Deutschland GmbH	
	Alignment valid from	:	July 25, 2024	
	Latest test machine monitoring on	:	December 16, 2024	
	Measurement standard deviation σ_m in latest monitoring	:	$\sigma_m= 0.005 \text{ N/kN}$ ($\sigma_m\leq0.075\text{N/kN}$ for Class C1 tyres)	
3.1.4.	Test tyre details			
	Tyre brand and trade description	:	Tourador / X COMFORT PLUS	
	Tyre type	:	265/35ZR22 102Y	
	Tyre structure	:	Radial	
	Category of use	:	Snow	
	Tyre class	:	C1	
	Plies fo tread and sidewall	:	2 Polyester + 2 Steel + 2 Nylon / 2 Polyester	
	State whether the tyre is	:	Standard / Reinforced	
	Manufacturing date code	:	4224	
3.1.5.	Test conditions			
	Test rim size / material	:	9.5 X 22 / Steel	
	Test speed	:	80 km/h	
	Test load (80% of maximum load capacity)	:	6670.8 N	
	Inflation pressure	:	250 kPa	
	Thermal conditioning	:	more than 3 hours	
	Warm-up	:	Forward rotation	Reverse rotation
			30 minutes	20 minutes

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3.1.6. Measurement and recording

The initial test inflation pressure : 250 kPa

	Forward rotation	Reverse rotation
The test speed, U_n	80.0 km/h	-80.0 km/h
The ambient temperature, t_{amb}	25.02 °C	24.99 °C
The load on the tyre normal to the drum surface, L_m	6670.930 N	6670.993 N
Spindle force(formal test mode)	54.227 N	-41.051 N
The distance from the tyre axis to the drum outer surface under steady-state conditions, r_L (formal test mode)	349.955 mm	350.106 mm
Skim test load	99.894 N	99.990 N
Spindle force (skim test mode)	6.665 N	-5.249 N
The distance from the tyre axis to the drum outer surface under steady-state conditions(skim test mode)	371.555 mm	371.626 mm

3.1.7. Rolling resistance result

Initial value (or average in the case of more than 1)	8.416 N/kN
Temperature corrected	8.417 N/kN
Temperature and drum diameter corrected	8.42 N/kN
Limit value for C1 (Stage 3)	10.0 N/kN

4. Snow performance measurements : **Not applicable**

5. Ice performance measurements : **Not applicable**

Type : X COMFORT PLUS
Manufacturer : Shandong Yongsheng Rubber Group Co., Ltd.

6. Tyre wet grip in worn state measurements

6.1 Worn tyre preparation

6.1.1. Test tyre details

Date of buffing : December 11, 2024
 Brand : Tourador
 Trade description/commercial name : X COMFORT PLUS
 Size : 325/35ZR23
 Service description : 115Y
 Rim width : 11.5J x 23
 Inflation pressure (kPa) : 220
 Week of manufacture : 4524
 Tyre identification code : ---

6.1.2. Groove depth measurement

Groove depth Central zone: (2.0 ± 0.4) mm Shoulder zone: ≤ 2 mm		in central zone (yes/no)	Circumferential locations			
			1	2	3	4
Transversal locations	1	No	1.67	1.62	1.03	1.30
	2	yes	1.77	1.88	1.72	1.87
	3	yes	2.37	1.99	1.71	2.10
	4	yes	2.26	1.86	1.69	1.76
	5	yes	1.83	1.69	1.77	1.68
	6	no	1.86	1.33	1.73	1.39
	7	---	---	---	---	---
	8	---	---	---	---	---
Values						
Average groove depth in central zone (mm) Central zone: (2.0 ± 0.2) mm					1.87	

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6.1.3. Roughness measurement

Arithmetical mean height of the absolute values of the roughness profile (µm)		Sections			
		1	2	3	4
Trans. Loc.	1 (right)	4.44	4.64	4.52	4.36
	2 (center)	4.26	4.51	4.31	4.21
	3 (left)	4.36	4.16	4.29	4.35
Average		4.35	4.44	4.37	4.31
Average of the arithmetical mean height of the absolute values of the roughness profiles (µm)					4.37

6.2. Wet grip index for tyres in worn state

- 6.2.1. Date of test : December 15, 2024
- 6.2.2. Test vehicle : FORD trailer
- 6.2.3. Location of test track : National Motorcycle Quality Supervisory & Testing Center (Tianjin)
Tuanbo Town, Jinghai County, Tianjin, P.R. China
- Test track characteristics : Calibration report No.202406007, June 05, 2024
- Issued by : Hebei Road & Bridge Engineering Test Co., Ltd.
- Method of certification : R117
- Texture depth : 0.49 mm
- $\mu_{peak,corr}$: 0.587 (vehicle method 0.4 to 0.65, trailer method 0.45 to 0.80)
- Water depth : 1.1 mm
- 6.2.4. Identification of the SRTT : 1APX0 B3UU 1423
- 6.2.5. Valid test results

	SRTT (before)	Candidate (1 of 1)	SRTT (after)
Brand name		Tourador	
Pattern / Trade description	SRTT	X COMFORT PLUS	SRTT
Size	P225/60R16	325/35ZR23	P225/60R16
Load & speed index	97S	115Y	97S
Rim width	6.5J x 16	11.5J x 23	6.5J x 16
Manufacturing date code	1APX0 B3UU 1423	4524	1APX0 B3UU 1423
Category of use	/	Snow	/
Standard or Reinforced	Standard	Reinforced	Standard

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Average load (kg)		565	888	565
Pressure (kPa)		180	220	180
μ_{peak}	1	0.586	0.457	0.552
	2	0.567	0.474	0.562
	3	0.559	0.491	0.574
	4	0.558	0.469	0.567
	5	0.571	0.465	0.582
	6	0.562	0.476	0.536
Average		0.567	0.472	0.562
Standard deviation, $\sigma\mu$		0.010	0.012	0.016
$CV\mu \leq 4 \%$		1.844%	2.442%	2.917%
$CVal(\mu_{\text{peak}}) \leq 5 \%$		0.885%		
$\mu_{\text{peak,corr}}(R)$		0.542	---	0.534
$\mu_{\text{peak,adj}}(R)$		---	0.565	---
Wet grip index		---	0.97	---
Ambient temp. (°C)		8.8	8.4	7.5
Ground temp. (°C)		7.5	6.9	6.1
Test speed (km/h)		65±2		
Limit value for C1		0.88		

End