

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- ~~approval withdrawn~~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 tyre with regard to 'rolling sound emission level' and/or 'adhesion performance on wet surfaces' and/or 'rolling resistance' pursuant to UN Regulation number 117.

Approval number ⁽²⁾: E4*117R02/10*10672*01

Suffix(es) ⁽³⁾: 02S2WR2

- | | | |
|------|---|--|
| 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' and 'category of use' of
the type of tyre | : Class C1/ Class C2 / Class C3
normal / snow / snow tyre for use in severe snow
conditions/ special |
| 3.1. | Snow tyre for use in severe snow
conditions | : yes/ no ⁽¹⁾ |
| 3.2. | Traction tyre | : yes /no ⁽¹⁾ |
| 4. | Tyre type designation | |
| 4.1. | Brand name(s)/trademark(s) of the
type of tyre | : ROTALLA; TRACMAX; ROADKING;
EVERSHINE; YONSHINE; MINERVA;
TRISTAR; IMPERIAL; NORDEXX; SUNTEK;
GREMAX; NEUTON; AUFINE; ZEETEX;
AUTOGRIP; ADERENZA; FINALIST;
TROCMOH; DOUPRO; HOSUPER;
ROCKSDARK; ROCKSHINE; SHIMO;
Tourador |

- 4.2. Trade description(s)/Commercial name(s) of the type of tyre : SETULA WRACE S130; X-privilo S130; ARGOS S130; WINTER PRO TS1
5. Technical service and, where applicable, test laboratory approved for purposes of approval or of verification of conformity tests : TÜV Rheinland Kraftfahrt GmbH
Typprüfstelle Fahrzeuge/Fahrzeugteile
Am Grauen Stein
51105 Köln
6. Performance(s) approved : sound level at (~~stage 1~~/stage 2)⁽¹⁾, wet adhesion level, rolling resistance level (~~stage 1~~/stage 2)⁽¹⁾ and snow performance level
- 6.1. Sound level of the representative tyre size, see Paragraph 2.5. of Regulation number 117, as per item 7. of the test report in the appendix 1 to Annex 3, at reference speed of ~~70~~/80 km/h⁽¹⁾. : 225/60R16 98H: 70 dB(A)
- 6.2. Wet adhesion level of the representative tyre size, see Paragraph 2.5. of Regulation number 117, as per item 7. of the test report in the appendix to Annex 5 using the vehicle ~~or trailer~~ method⁽¹⁾. : 225/60R16 98H: 1.46
- 6.3. Rolling resistance level of the representative tyre size, see paragraph 2.5. of Regulation number 117, as per item 7. of the test report in the appendix 3 to Annex 6. : 135/70R15 70T: 10.08 N/kN
- 6.4. Snow grip level of the representative tyre size, see paragraph 2.5. 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⁾~~. : 225/60R16 98H: 1.11
7. Number of report issued by that service : 86-R117-2068/20-00
8. Date of report issued by that service : June 04, 2020
9. Reason(s) of extension (if applicable) : Addition of tyre sizes unnecessary for repetition test;
Upgrade of regulation supplement No. 10;
Change of technical service
10. Any remarks : ---

11. Place : Zoetermeer
12. Date : 18 June 2020

13. Signature :



T. H. K. Spatz

14. Annexed to this communication are: SETULA WRACE S130-01
- 14.1. 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⁾.
- 14.2. 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, adding in case of Class C1 tyres the mark 'reinforced' (or 'extra load') or the speed symbol of snow tyres or in the case of tyres of Classes C2 and C3, the mark 'traction', if so required by paragraph 3.1. of this Regulation.

⁽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 of Annex 7 shall be submitted.

Information Document: No. SETULA WRACE S130-01

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, 02 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 and/or snow performance
- 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) : ROTALLA;TRACMAX;ROADKING;EVERSHINE;
YONSHINE;MINERVA;TRISTAR;IMPERIAL;
NORDEXX;SUNTEK;GREMAX;NEUTON;
AUFINE;ZEETEX;AUTOGRIP;ADERENZA;
FINALIST; TROCMOH ;DOUPRO;HOSUPER;
ROCKSDARK;ROCKSHINE;SHIMO;Tourador

SETULA WRACE S130 ; X-privilo S130 ;
ARGOS S130 ; WINTER PRO TS1
- 1.6. Tyre class : Class C1 / ~~Class C2~~ / ~~Class C3~~
- 1.6.1. Section width range for class C1 tyres : See attached "list of tyre sizes"
- 1.7. Tyre structure : ~~Diagonal / Bias belted~~ / Radial*
- 1.8. State whether
- 1.8.1 For Class C1 tyres
- 1.8.1.1 Reinforced (or extra load) in case of approval with regard to rolling sound emission level : See attached "list of tyre sizes"
- 1.8.1.2 Speed category symbol "Q" or below (excluding "H") or "R" and above (including "H") in case of "snow" tyres for approval with regard to adhesion on wet surfaces : Not applicable
- 1.8.2 For Classes C2 and C3 tyres



- 1.8.2.1 M+S marked in case of approval with regard to rolling sound emission level at stage 1 : Not applicable
- 1.8.2.2 Traction in case of approval with regard to rolling sound emission level at stage 2 : Not applicable
- 1.9. Category of use : ~~Normal~~ / ~~Special~~ / ~~Snow~~ / Snow tyre for use in severe snow conditions *
- 1.10. A list of tyre size designation covered by this application : See attached "list of tyre sizes" (page 3 of 9)
- 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 Extension reasons : Additional Tyre size
- 3.2 Date of the information document : 2020-4-24

Manufacture's stamp



Signature:

Name: Zhang GuoKui

This application is accompanied by:

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

I LIST OF TYRE SIZES

Brand name or trade mark: ROTALLA;TRACMAX;ROADKING;EVERSHINE;YONSHINE;MINERVA;
TRISTAR;IMPERIAL;NORDEXX;SUNTEK;GREMAX;NEUTON;AUFINE;
ZEETEX;AUTOGrip;ADERENZA;FINALIST; TROCMOH;DOUPRO;
HOSUPER;ROCKSDARK;ROCKSHINE;SHIMO;Tourador

Tread pattern: SETULA WRACE S130 ; X-privilo S130 ; ARGOS S130 ; WINTER PRO TS1

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 snow performance
135/70R15 70T	E4-0291393	71	1.0	11.5	1.07
145/70R13 71T	E4-0291339	71	1.0	11.5	1.07
145/80R13 75T	E4-0291340	71	1.0	11.5	1.07
155/65R13 73T	E4-0291341	71	1.0	11.5	1.07
155/65R14 75T	E4-0291342	71	1.0	11.5	1.07
155/70R13 75T	E4-0291343	71	1.0	11.5	1.07
155/80R13 79T	E4-0291344	71	1.0	11.5	1.07
165/60R14 79TXL	E4-0291345	71	1.0	11.5	1.07
165/60R15 81TXL	E4-0291346	71	1.0	11.5	1.07
165/65R14 79T	E4-0291347	71	1.0	11.5	1.07
165/65R15 81T	E4-0291348	71	1.0	11.5	1.07
165/70R13 79T	E4-0291349	71	1.0	11.5	1.07
165/70R14 81T	E4-0291350	71	1.0	11.5	1.07
165/70R14 85TXL	E4-0293539	71	1.0	11.5	1.07
175/55R15 77T	E4-0291400	71	1.0	11.5	1.07
175/65R13 80T	E4-02100484	71	1.0	11.5	1.07
175/65R14 82T	E4-0291351	71	1.0	11.5	1.07
175/65R14 86TXL	E4-0291352	71	1.0	11.5	1.07
175/65R15 84T	E4-0291353	71	1.0	11.5	1.07
175/70R13 82T	E4-0291354	71	1.0	11.5	1.07
175/70R14 84T	E4-0291355	71	1.0	11.5	1.07
175/70R14 88TXL	E4-0293538	71	1.0	11.5	1.07
185/55R14 80T	E4-0291399	71	1.0	11.5	1.07
185/55R15 82H	E4-0291357	71	1.0	11.5	1.07
185/60R14 82T	E4-0291359	71	1.0	11.5	1.07
185/60R14 82H	E4-0291358	71	1.0	11.5	1.07
185/60R15 84T	E4-0291360	71	1.0	11.5	1.07
185/60R15 88TXL	E4-0291361	71	1.0	11.5	1.07
185/60R16 86H	E4-0291397	71	1.0	11.5	1.07
185/65R14 86T	E4-0291362	71	1.0	11.5	1.07

185/65R14 86H	E4-0291363	71	1.0	11.5	1.07
185/65R15 88T	E4-0291364	71	1.0	11.5	1.07
185/65R15 88H	E4-0291365	71	1.0	11.5	1.07
185/65R15 92TXL	E4-0291366	71	1.0	11.5	1.07
185/70R14 88T	E4-0291367	71	1.0	11.5	1.07
195/50R15 82H	E4-0291368	72	1.0	11.5	1.07
195/50R16 88VXL	E4-02100485	72	1.0	11.5	1.07
195/50R16 84H	E4-02115292	72	1.0	11.5	1.07
195/55R15 85H	E4-0291369	72	1.0	11.5	1.07
195/55R16 87H	E4-0291370	72	1.0	11.5	1.07
195/55R16 91VXL	E4-02115293	72	1.0	11.5	1.07
195/60R15 88T	E4-0291371	72	1.0	11.5	1.07
195/60R15 88H	E4-0291372	72	1.0	11.5	1.07
195/60R16 89H	E4-0291398	72	1.0	11.5	1.07
195/65R14 89T	E4-02100486	72	1.0	11.5	1.07
195/65R15 91T	E4-0291373	72	1.0	11.5	1.07
195/65R15 91H	E4-0291374	72	1.0	11.5	1.07
195/65R15 95TXL	E4-0291375	72	1.0	11.5	1.07
195/70R14 91T	E4-0291376	72	1.0	11.5	1.07
205/55R16 91H	E4-0291377	72	1.0	11.5	1.07
205/55R16 91V	E4-0293509	72	1.0	11.5	1.07
205/60R15 91H	E4-0291378	72	1.0	11.5	1.07
205/60R16 92T	E4-0291379	72	1.0	11.5	1.07
205/60R16 92H	E4-0291380	72	1.0	11.5	1.07
205/60R16 96HXL	E4-0293537	72	1.0	11.5	1.07
205/65R15 94H	E4-0291381	72	1.0	11.5	1.07
205/70R15 96S	E4-0291382	72	1.0	11.5	1.07
205/70R15 96T	E4-0291383	72	1.0	11.5	1.07
215/60R16 95H	E4-02115294	72	1.0	11.5	1.07
215/60R16 99HXL	E4-0291385	72	1.0	11.5	1.07
215/65R15 96H	E4-0291396	72	1.0	11.5	1.07
215/65R15 100HXL	E4-0298886	72	1.0	11.5	1.07
215/65R16 98T	E4-0291386	72	1.0	11.5	1.07
215/65R16 98H	E4-0291387	72	1.0	11.5	1.07
215/65R16 102HXL	E4-0298873	72	1.0	11.5	1.07
215/70R15 98S	E4-0291388	72	1.0	11.5	1.07
215/70R15 98T	E4-0291389	72	1.0	11.5	1.07
225/60R16 98T	E4-0291390	72	1.0	11.5	1.07
225/60R16 98H	E4-0291391	72	1.0	11.5	1.07
225/60R16 102HXL	E4-0291392	72	1.0	11.5	1.07
145/65R15 72T	E4-0298884	71	1.0	11.5	1.07
155/60R15 74T	E4-02121726	71	1.0	11.5	1.07

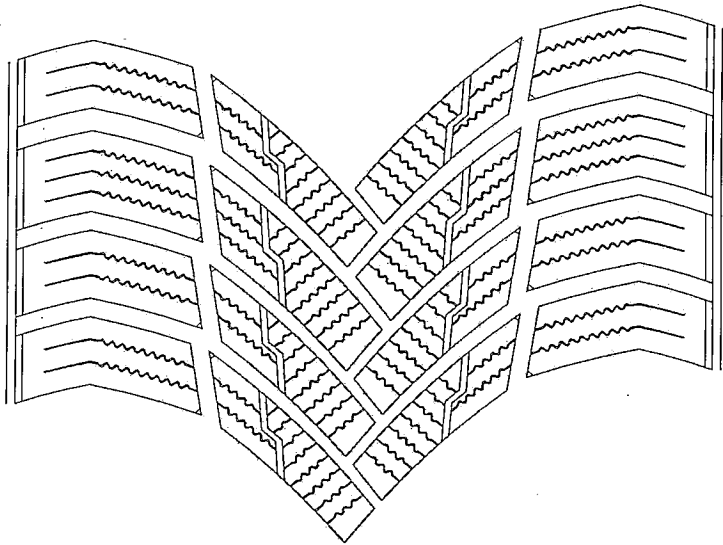
Remark:

- (1) The tread pattern may be named as SETULA WRACE S130 ; X-privilo S130 ; ARGOS S130 ; WINTER PRO TS1 according to the manufacturer request.
- (2) For the tread pattern SETULA WRACE S130 ; X-privilo S130 ; ARGOS S130 ; WINTER PRO TS1 with completely the same pattern designing.

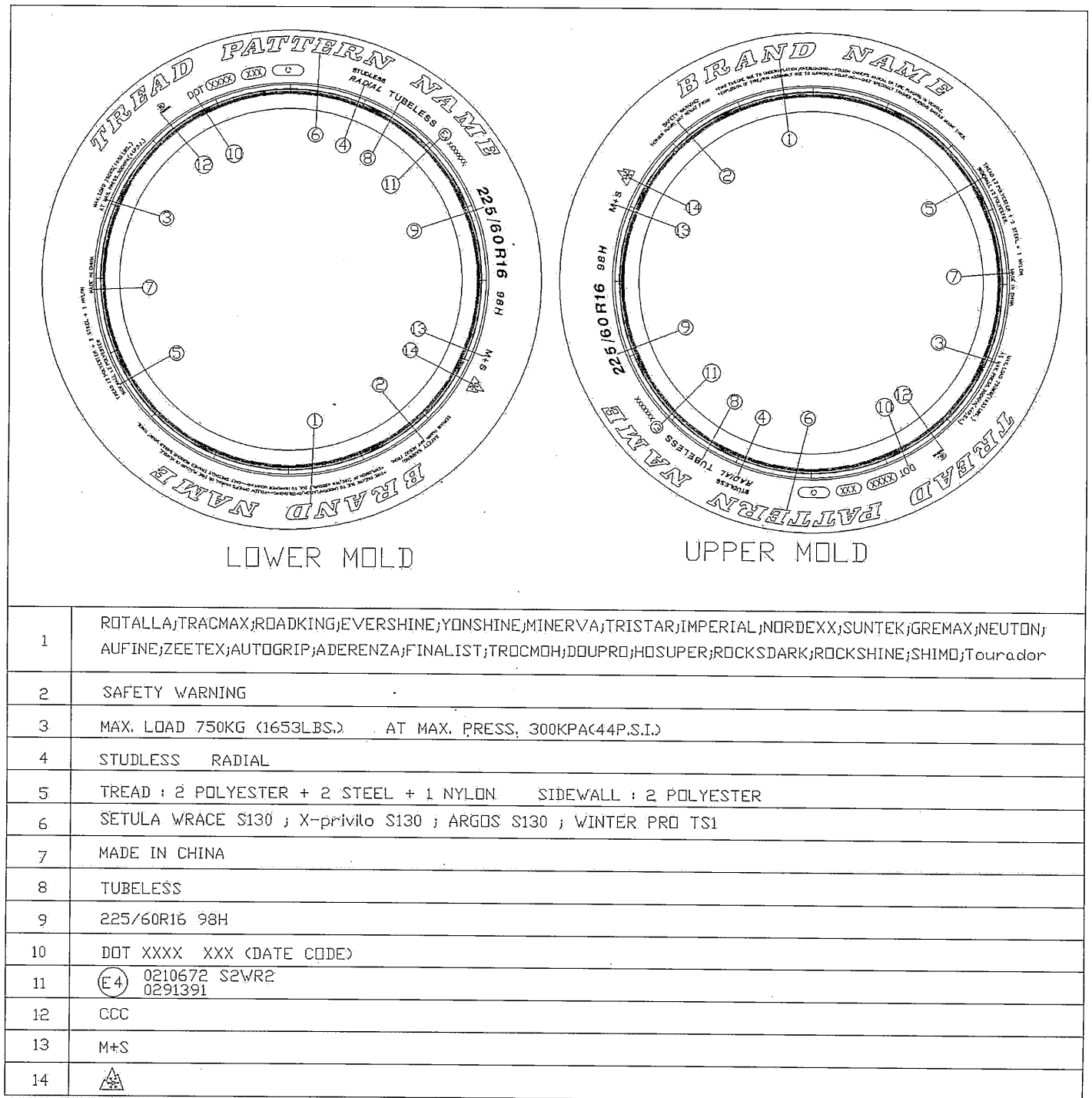
II Worst Case Selection for Testing Tire	
Test size for rolling sound:	225/60R16 98H
Because of:	Largest section width
Test size for wet grip:	225/60R16 98H
Because of:	Any tyre size that meets ten percent (10%)
Test size for rolling resistance:	135/70R15 70T
Because of:	Lowest load index
Test size for snow performance:	225/60R16 98H
Because of:	Largest section width

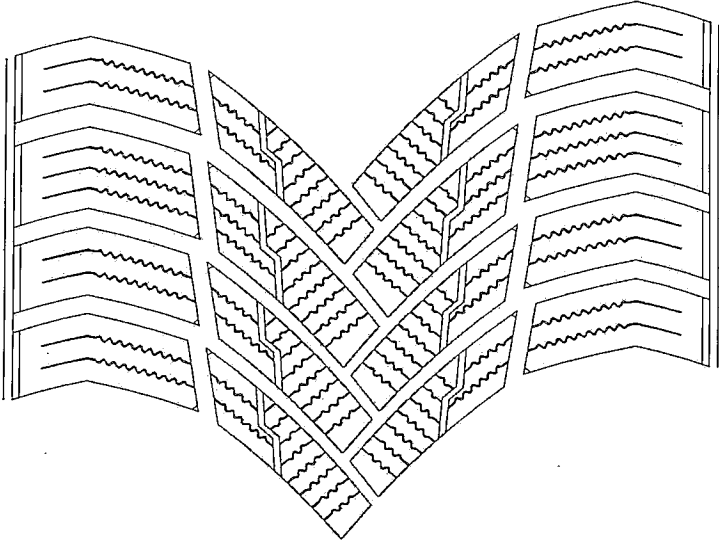
Insert here:

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

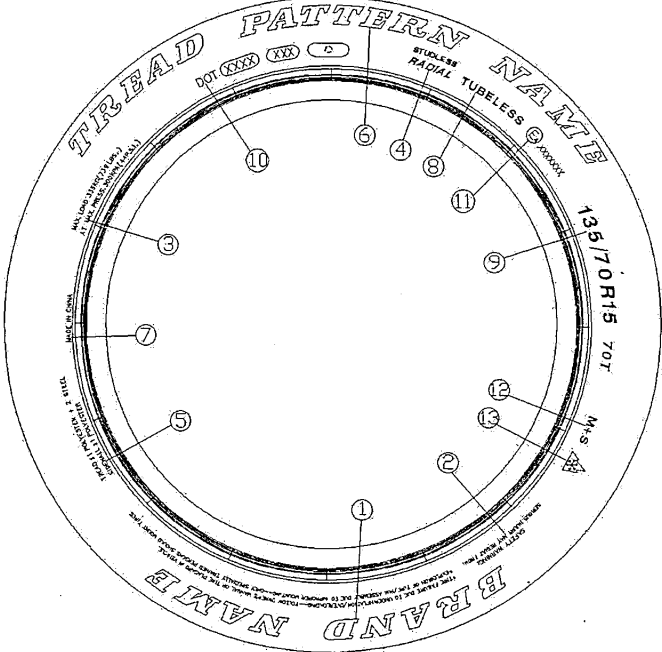
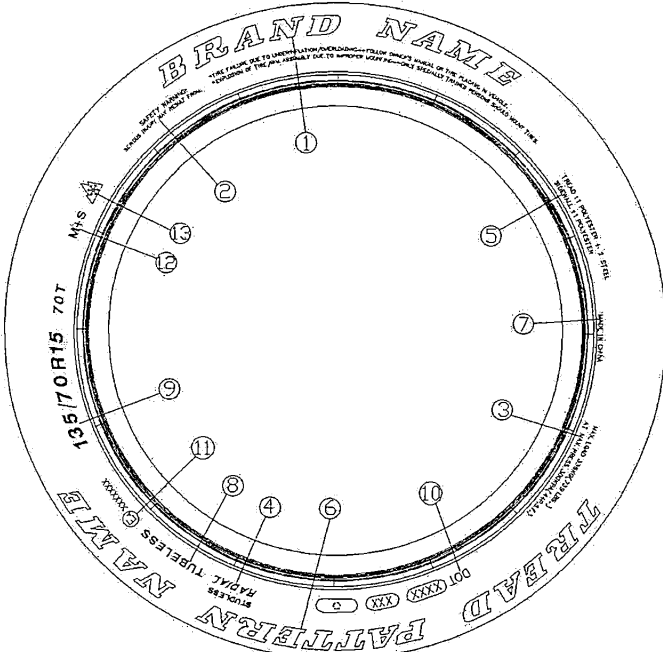
Manufacturer name	Shandong Yongsheng Rubber Group Co., LTD.	
Pattern name	SETULA WRACE S130 ; X-privilo S130 ; ARGOS S130 ;	
Tyre Sizes	WINTER PRO TS1	
Market	225/60R16 98H	
	EU/CN/US/America/Africa	
Pitch number	80	
Pitch ratio	1.00/1.18/1.41	
Void volume [%]	30	
Width: main grooves [mm]	5.4/5.4	
Depth: center groove [mm]	8.5	
Depth: shoulder groove [mm]	5.0	
Pattern		

Drawing of the side wall: 225/60R16 98H



Manufacturer name	Shandong Yongsheng Rubber Group Co., LTD.
Pattern name	SETULA WRACE S130 ; X-privilo S130 ; ARGOS S130 ;
Tyre Sizes	WINTER PRO TS1
Market	135/70R15 70T
	EU/CN/US/America/Africa
Pitch number	76
Pitch ratio	1.00/1.18/1.41
Void volume [%]	30
Width: main grooves [mm]	3.7/3.7
Depth: center groove [mm]	8.1
Depth: shoulder groove [mm]	4.9
Pattern	

Drawing of the side wall: 135/70R15 70T

	
	
LOWER MOLD UPPER MOLD	
1	ROTALLA;TRACMAX;ROADKING;EVERSHINE;YONSHINE;MINERVA;TRISTAR;IMPERIAL;NORDEXX;SUNTEK;GREMAX;NEUTON;AUFINE;ZEETEX;AUTOGRIP;ADERENZA;FINALIST;TROCMOH;DOUPRO;HOSUPER;ROCKSDARK;ROCKSHINE;SHIMO;Tourador
2	SAFETY WARNING
3	MAX. LOAD 335KG (739LBS.) AT MAX. PRESS. 300KPA(44P.S.I.)
4	STUDLESS RADIAL
5	TREAD : 1 POLYESTER + 2 STEEL SIDEWALL : 1 POLYESTER
6	SETULA WRACE S130 ; X-privile S130 ; ARGOS S130 ; WINTER PRO TS1
7	MADE IN CHINA
8	TUBELESS
9	135/70R15 70T
10	DOT XXXX XXX (DATE CODE)
11	E4 0210672 S2WR2 0291393
12	M+S
13	

Type : SETULA WRACE S130; X-privilo S130;
ARGOS S130; WINTER PRO TS1
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. R117

including all amendments until

Amend.02, Suppl. 10

Approval Status

UN approval : E4*117R02/09*10672*00

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 in full by the client only. It shall however be reproduced partially with the written permission of the Testing Laboratory only.

Type : SETULA WRACE S130; X-privilo S130;
ARGOS S130; WINTER PRO TS1

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 : SETULA WRACE S130; X-privilo S130; ARGOS S130; WINTER PRO TS1
- 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 : SETULA WRACE S130-01
-Date of issue : ---
-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)~~ : SETULA WRACE S130; X-privilo S130; ARGOS S130; WINTER PRO TS1
- 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 the worst case was done according to internal procedures of the Technical Service (QMA 1.301.005, section 6.2.2.2.) and RDW Announcement for the Technical Service number: 2018/01[Regulation R117], the description was mentioned in No. II [Worst case selection] of information folder No. SETULA WRACE S130-01
- Only one variant/version, so no worst case assessment required.
- 1.3. Remarks : All versions of the types as stated in the information folder are covered by the tested object(s) respectively.

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

Type : SETULA WRACE S130; X-privilo S130;
 ARGOS S130; WINTER PRO TS1
Manufacturer : Shandong Yongsheng Rubber Group Co., Ltd.

-
- Tyre noise : Not applicable
 - Wet grip : Not applicable
 - Rolling resistance : Not applicable
 - Snow performance : Not applicable
 - 2.2. Test results : See appendix 1
 - Numbering according to Paragraph 6. and 7. of the UN-Regulation No.117
 - 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 : SETULA WRACE S130; X-privilo S130;
ARGOS S130; WINTER PRO TS1
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 in point 0.5. mentioned information folder and the type described in that comply with the requirements mentioned on page 1.

With regard to the required level of performance to be achieved, the tested items were representative for the type to be approved (see point 1.2).

The mentioned test results refer to the ~~vehicle(s)~~ object(s) described under point 1.1. of this report.

Engineering centre Shanghai / June 04, 2020
LC



Linda Chen
Expert Technical Service

Type : SETULA WRACE S130; X-privilo S130;
ARGOS S130; WINTER PRO TS1
Manufacturer : Shandong Yongsheng Rubber Group Co., Ltd.

List of modifications

Appendix 0

Correction of	: ---
Modification of	: Technical service; Upgrade of regulation supplement No. 10
Addition of	: Tyre sizes unnecessary for repetition test
Deletion of	: ---

Type : SETULA WRACE S130; X-privilo S130;
 ARGOS S130; WINTER PRO TS1
Manufacturer : Shandong Yongsheng Rubber Group Co., Ltd.

Test minutes

Appendix 1

- 1.** Tyre noise measurements : Refer to report No. : CT117-A0-190002 corresponding to type approval No. : E4*117R02/09*10672*00
- 1.1. Date of test : January 24, 2019
- 1.2. Test vehicle
- Make and vehicle name : CHANGFENG, LMG652B08DA000438
- Wheelbase : 2725 mm(<3500mm for C1)
- 1.3. Location of test track : Dingyuan Ground for highway and Traffic Fangang town, Dingyuan District, 2333210, Anhui, P.R. China
- Date of track certification to ISO10844:2011 : June 06, 2018
- Issued by : China Department of Transportation Highway Inspection Center
- Method of certification : Residual void content, Sound absorption coefficient, Texture depth
- 1.4. Test tyre details
- Tyre brand and trade description : TRACMAX / ---
- Tyre type : 225/60R16 98H
- Tyre structure : Radial
- Category of use : Snow tyre for use in severe snow conditions
- Tyre class : C1
- State whether the tyre is : Standard / ~~Reinforced~~
- Manufacturing date code : 0219
- 1.5. Test data
- Reference load : 750 kg
- Reference inflation pressure : 250 kPa
- Reference speed : ~~70~~ 80 km/h

Type : SETULA WRACE S130; X-privilo S130;
 ARGOS S130; WINTER PRO TS1
Manufacturer : Shandong Yongsheng Rubber Group Co., Ltd.

	Front left	Front right	Rear left	Rear right
Test mass (kg)	535	535	620	620
Tyre load index (%)	71.3%	71.3%	82.7%	82.7%
Inflation pressure (cold) (kPa)	170	170	200	200

Test rim width code : 6.5J

Temperature measurement : Not applicable
 sensor type

Valid Test results :

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	72.4	One direction	70.3	70.2	8.4	7.1	---	---	---
2	73.6	One direction	70.5	70.7	8.4	7.1	---	---	---
3	76.1	One direction	71.1	71.2	8.4	7.1	---	---	---
4	77.7	One direction	71.7	71.8	8.4	7.1	---	---	---
5	82.5	One direction	72.5	72.7	8.4	7.1	---	---	---
6	84.5	One direction	73.2	73.2	8.4	7.1	---	---	---
7	86.4	One direction	73.8	74.0	8.4	7.1	---	---	---
8	88.1	One direction	74.6	74.7	8.4	7.1	---	---	---
Limit value	70~90	---	---	---	5~40	5 ~ 50	---	---	---

Regression line slope : 48.35

Type : SETULA WRACE S130; X-privilo S130;
ARGOS S130; WINTER PRO TS1
Manufacturer : Shandong Yongsheng Rubber Group Co., Ltd.

Sound level after temperature correction according to paragraph 4.3. of annex 3 : 71.5 dB(A)

Final result according to paragraph 4.4. and 4.5. of annex 3 : **70 dB(A)**

Limit Value for C1 (Stage I+ II, snow tyre for use in severe snow conditions) : 72 dB(A)

Type : SETULA WRACE S130; X-privilo S130;
ARGOS S130; WINTER PRO TS1
Manufacturer : Shandong Yongsheng Rubber Group Co., Ltd.

- 2. Tyre wet grip measurements** : Refer to report No. : CT117-A0-190004 corresponding to type approval No. : E4*117R02/09*10672*00
- 2.1. Date of test : January 24, 2019
- 2.2. Test vehicle : CHANGFENG, LMG652B08DA000438
- 2.3. Location of test track : Dingyuan Ground for Highway and Traffic Fangang town, Dingyuan District, 233210, Anhui, P.R. China
- Test track characteristics : June 10, 2018
- Issued by : TÜV NORD Mobilität GmbH & Co.KG
IFM-Institut für Fahrzeugtechnik und Mobilität, Schönscheidtstr. 28, 45307 Essen
- Method of certification : BPN / ASTM E 965
- Water depth : 1.2 – 1.3 mm
- 2.4. Identification of the SRTT : APXO B2UU 0814
- 2.5. Candidate tyre : 225/60R16 98H
- 2.6. Reference inflation pressure : 250 kPa
- 2.7. Valid test results : Vehicle method

	SRTT (before)	Candidate tyre	SRTT (after)
Front axle pressure (kPa)	220	220	220
Rear axle pressure (kPa)	220	220	220
Front axle load (kg)	1051	1051	1051
Rear axle load (kg)	1095	1095	1095
Water depth (mm)	1.2	1.3	1.3
Ambient temp (°C)	11.3	11.2	11.0
Wetted track temperature average (°C)	10.2	10.9	10.2

- 2.8. Test rim code : 6.5J
- 2.9. Temperature measurement sensor type : FLUKE-62
- 2.10. Standard vehicle procedure* :

Type : SETULA WRACE S130; X-privilo S130;
 ARGOS S130; WINTER PRO TS1
Manufacturer : Shandong Yongsheng Rubber Group Co., Ltd.

Run No.	Test speed	Direction	SRTT before		Candidate (No. 1 of 1)		SRTT after	
			P225/60R16		225/60R16		P225/60R16	
			Distance (m)	Mfdd(m/s ²)	Distance (m)	Mfdd(m/s ²)	Distance (m)	Mfdd(m/s ²)
1	80-20	E-W	31.87	7.26	27.95	8.28	31.80	7.28
2	80-20	E-W	32.25	7.18	28.23	8.20	31.73	7.30
3	80-20	E-W	32.13	7.20	27.85	8.31	32.15	7.20
4	80-20	E-W	31.76	7.29	28.12	8.23	31.66	7.31
5	80-20	E-W	31.85	7.27	27.89	8.30	31.82	7.27
6	80-20	E-W	31.97	7.24	27.53	8.41	32.12	7.21
Average AD(m/s ²)			31.97	7.24	27.93	8.29	31.88	7.26
Standard deviation (m/s ²)			0.17	0.04	0.22	0.07	0.19	0.05
Validation of results Coefficient of variation(%) <3% Total Coefficient of variation SRTT<3%			---	0.58%	---	0.87%	---	0.64%
Adjusted average AD ref. tyre: Ra(m/s ²)			7.25					
BFC(R)			0.739					
BFC(T)			0.845					
Wet grip index(G)			1.46					
Limit value for C1, snow tyre for use in severe snow conditions			1.0					

Type : SETULA WRACE S130; X-privilo S130;
 ARGOS S130; WINTER PRO TS1
Manufacturer : Shandong Yongsheng Rubber Group Co., Ltd.

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- 3. Rolling resistance measurements** : Refer to report No. : CT117-A0-190001 corresponding to type approval No. : E4*117R02/09*10672*00
- 3.1. Date of test : January 28, 2019
- 3.2. Test site : ---
- 3.3. Test machine information
- Make / type : TL-060
- Applicable test method : Force method
- Diameter ($\geq 1.7\text{m}$) : 1.7 m
- Surface : Smooth steel / ~~Textured surface~~
- 3.4. Test tyre details
- Tyre brand and trade description : ROTALLA / ---
- Tyre type : 135/70R15 70T
- Tyre structure : Radial
- Category of use : Snow tyre for use in severe snow conditions
- Tyre class : C1
- Plies fo tread and sidewall : 1 POLYESTER + 2 STEEL / 1 POLYESTER
- State whether the tyre is : Standard / ~~Reinforced~~
- Manufacturing date code : ---
- 3.5. Test conditions
- Test rim size : 4J
- Test speed : 80 km/h
- Test load (80% of maximum load capacity) : 2628 N
- Ft at 80% load : 26.77 N

Type : SETULA WRACE S130; X-privilo S130;
ARGOS S130; WINTER PRO TS1
Manufacturer : Shandong Yongsheng Rubber Group Co., Ltd.

3.6. Measurement and recording

Inflation pressure : 210 kPa
The distance from the tyre axis : 266.6 mm
to the drum outer surface under
steady-state conditions,
rL(formal test mode)
Air temperature : 23.9 °C
Skim test load(except : 150.1 N
deceleration method) :
Ft at skim test : 5.94 N
Fp1 : 7.91 N
Rolling resistance coefficient
Initial value : 10.36 N/kN
Initial value after 2.0m drum : 10.17 N/kN
correction
Temperature corrected N/kN : -0.09 N/kN
Temperature and drum : 10.08 N/kN
diameter corrected
Limit value for C1 (Stage I / II, : ~~13.0 N/kN~~ 11.5 N/kN
snow tyre for use in severe
snow conditions)

The test result corrected by alignment equation mentioned in paragraph 6 of Annex Iva of Regulation (EC) No. 1222/2009 is: n/a, Energy Efficiency Class: n/a

Type : SETULA WRACE S130; X-privilo S130;
 ARGOS S130; WINTER PRO TS1
Manufacturer : Shandong Yongsheng Rubber Group Co., Ltd.

4. **Snow performance measurements** : Refer to report No. : CT117-A0-190003 corresponding to type approval No. : E4*117R02/09*10672*00
- 4.1. Date of test : January 26 & 27, 2019
- 4.2. Location of test track : Heihe Red Valley Automotive Test Center, P.R. China
- 4.3. Test vehicle : SRTT and Candidate tyre installed on
 Make / vehicle name : CFA2031H
 VIN : LL62HBC01BB008460
- 4.4. Test tyre details : Candidate tyre
 Tyre brand and trade description : ROTALLA / ---
 Tyre type : 225/60R16 98H
 Tyre class : C1
 Tyre structure : Radial
 Category of use : Snow tyre for use in severe snow conditions
 State whether the tyre is : ~~Standard~~ / Reinforced
 Manufacturing date code : ---
- 4.5. Test procedure and SRTT used : Braking on snow method / E1136-93 P195/75R14
 Identification of the SRTT : ---
- 4.6. Test results
 Measured snow index value relative to SRTT :

First day measurement	:	1.11
Second day measurement	:	1.10
Average	:	1.11
Limit value for C1	:	1.07

Type : SETULA WRACE S130; X-privilo S130;
ARGOS S130; WINTER PRO TS1
Manufacturer : Shandong Yongsheng Rubber Group Co., Ltd.

First day measurement : **Candidate tyre**

		At start of tests		At end of tests		Specification	
Weather		Indoor		Indoor		n/a	
Ambient temperature		-12.5 °C		-12.9 °C		-2°C to -15°C	
Snow temperature		-10.8 °C		-10.9 °C		-4°C to -15°C	
CTI index		79		79		75 to 85	
		SRTT (1 st test)		Candidate tyre(1 of 1)		SRTT (2 nd test)	
Tyre dimensions		P195/75R14		225/60R16 98H		P195/75R14	
Test rim width code		6J		6.5J		6J	
		Left	Right	Left	Right	Left	Right
Tyre load(kg)	Front	545	552	545	552	545	552
	Rear	564	568	564	568	564	568
Load index(%)	Front	87%	88%	72%	73%	87%	88%
	Rear	89%	90%	75%	76%	89%	90%
Tyre pressure (kpa)	Front	240	240	240	240	240	240
	Rear	240	240	240	240	240	240

Valid Test results		: Mean fully developed deceleration(m/s ²) / traction coefficient	
Run number	SRTT (1 st test)	Candidate tyre (1 of 1)	SRTT (2 nd test)
1	3.321	3.627	3.276
2	3.322	3.562	3.301
3	3.287	3.785	3.367
4	3.319	3.613	3.268
5	3.306	3.707	3.295
6	3.295	3.662	3.278
Mean	3.308	3.659	3.298
Std-deviation	0.014	0.072	0.033
CV (< 6%)	0.41%	1.96%	1.00%
Validation SRTT (≤ 5%)	0.026		
SRTT Average	---	3.30	--
Snow Index	---	1.11	--

Type : SETULA WRACE S130; X-privilo S130;
ARGOS S130; WINTER PRO TS1
Manufacturer : Shandong Yongsheng Rubber Group Co., Ltd.

Second day measurement : Candidate tyre

		At start of tests		At end of tests		Specification	
Weather		Indoor		Indoor		n/a	
Ambient temperature		-12.2 °C		-12.7 °C		-2°C to -15°C	
Snow temperature		-11.2 °C		-11.4 °C		-4°C to -15°C	
CTI index		81		81		75 to 85	
		SRTT (1 st test)		Candidate tyre(1 of 1)		SRTT (2 nd test)	
Tyre dimensions		P195/75R14		225/60R16 98H		P195/75R14	
Test rim width code		6J		6.5J		6J	
		Left	Right	Left	Right	Left	Right
Tyre load(kg)	Front	545	552	545	552	545	552
	Rear	564	568	564	568	564	568
Load index(%)	Front	87%	88%	72%	73%	87%	88%
	Rear	89%	90%	75%	76%	89%	90%
Tyre pressure (kpa)	Front	240	240	240	240	240	240
	Rear	240	240	240	240	240	240

Valid Test results		: Mean fully developed deceleration(m/s ²) / traction coefficient	
Run number	SRTT (1 st test)	Candidate tyre (1 of 1)	SRTT (2 nd test)
1	3.411	3.662	3.403
2	3.430	3.632	3.329
3	3.316	3.772	3.349
4	3.391	3.671	3.331
5	3.423	3.693	3.334
6	3.379	3.758	3.381
Mean	3.392	3.698	3.355
Std-deviation	0.038	0.051	0.028
CV (< 6%)	1.12%	1.37%	0.84%
Validation SRTT (≤ 5%)	0.038%		
SRTT Average	---	3.37	--
Snow Index	---	SG = 1.10	--