

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- ~~approval withdrawn~~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 Regulation number 117.

Approval number: E4-117R-026538 S2R2

Extension number: 00

1. Manufacturer's name and address(es) : Cheng Shin Rubber Co., Ltd.
(1)NO.15 XI BIN ROAD XING LIN
INDUSTRIAL DISTRICT XIAMEN, CHINA
(2)BIAHUYAN ROAD, HOXI INDUSTRIAL
ZONE,JIMEI,DISTRICT CITY, FUJIAN
PROVINCE CHINA
(3)EAST CHAOYANG ROAD,LUJIA TOWN,
KUNSHAN CITY,JIANGSU
PROVINCE,CHINA

2. If applicable, name and address of
manufacturer's representative : Not applicable.

3. 'Tyre class' and 'category of use' of
the type of tyre : C2, Normal

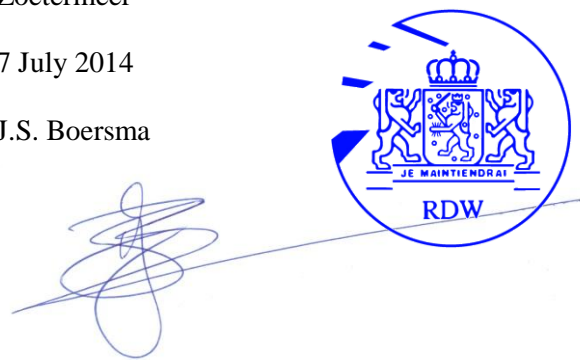
4. Brand(s) name(s) and/or Trade
description(s) of the type of tyre : MAXXIS CR967

5. Technical service and, where
appropriate, test laboratory approved
for purposes of approval or of
verification of conformity tests : RDW
P.O. Box 777
2700 AT Zoetermeer
The Netherlands



Cheng Shin Rubber
Ind. Co., Ltd
215, Meei-kong Road
Ta-Tsun, Chang-Hwa
Taiwan

6. Performance(s) approved : sound level at (~~stage 1~~/stage 2)⁽¹⁾, wet adhesion level, rolling resistance level (~~stage 1~~/stage 2)⁽¹⁾
- 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 to Annex 3: 72 dB(A) at reference speed of 70/80 km/h⁽¹⁾.
- 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: N/A (G) using the vehicle or trailer method⁽¹⁾.
- 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 to Annex 6: 7,96 N/kN
7. Number of report issued by that service : RDW-117R-0016673 (Rolling sound emission)
CST-117R-0000018 (Rolling resistance)
8. Date of report issued by that service : 11-02-2014 (Rolling sound emission)
09-05-2014 (Rolling resistance)
9. Reason(s) of extension (if applicable) : --
10. Any remarks : --
11. Place : Zoetermeer
12. Date : 7 July 2014
13. Signature : J.S. Boersma



14. Annexed to this communication are:
- 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⁽²⁾.
- 14.2. A list of tread-pattern designations: Specify for each trademark or brand name and trade description 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.

Documentation: Information document: CR967 and test report CST-117R-0000018 (total of 8 pages)

⁽¹⁾ Strike out what does not apply.

⁽²⁾ 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.

Cheng Shin Rubber Industrial Ltd

Information Document :CR967

APPLICATION FOR APPROVAL OF TYRES WITH REGARD TO ROLLING SOUND EMISSION AND/ OR ADHESION ON WET SURFACES AND/OR ROLLING RESISTANCE LEVEL. TYRE SNOW PERFORMANCE LEVEL IN CASES WHERE THE CATEGORY OF USE IS SNOW. ACCORDING TO REGULATION R117, 02 SERIES OF AMENDMENTS

- 3.1.2. Name of manufacturer: : Cheng Shin Rubber Co., Ltd.
- 3.1.3. Name and address of applicant : Cheng Shin Rubber Co., Ltd.
8TH FL, No.50, SEC.1 SHIN-SHENG S. RD. TAIPEI.
TAIWAN R.O.C
- 3.1.4. Address(es) of manufacturing plant(s) : (1)NO.15 XI BIN ROAD XING LIN INDUSTRIAL
DISTRICT XIAMEN, CHINA
(2)BAIHUYAN ROAD,HOUXI INDUSTRIAL
ZONE,JIMEI DISTRICT,XIAMEN CITY,
FUJIAN PROVINCE CHINA
(3)EAST CHAOYANG ROAD,LUJIA TOWN,KUNSHAN
CITY,JIANGSU PROVINCE,CHINA
- 3.1.5. Brand name(s), trade description(s), trade mark(s) : MAXXIS
- 3.1.6. Tyre class : ~~Class C1~~ / Class C2 / ~~Class C3~~
- 3.1.6.1. Section width range for class C1 tyres :
- 3.1.7. Tyre structure : ~~Diagonal~~ / ~~Bias belted~~ / Radial*
- 3.1.8. For Class C1 tyres, state wheter
(a) Reinforced (or Extra Load)
(b) Speed category symbol "Q"
and below or "R" and above in
case of "Snow tyre".
- 3.1.9. Category of use : Normal / ~~Special~~ / ~~Snow~~ *
- 3.1.10. A list of tyre size destignation covered by this application : See attached list of tyre sizes



* strike out what does not apply

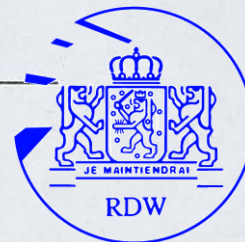
- 3.2.1. Details of the major features, **See drawing No: LTR-Normal-001-A**
with respect to the effects on tyre
performance (i.e. rolling sound
emission level or adhesion on
wet surfaces respectively) of the
tread pattern(s) to be used on the
designated range of tyre sizes.
This may be by drawing,
photograph or description, but
shall 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. The effects of
changes to minor details of tyre
construction on tyre
performances will be evident and
determined during checks on
conformity of production;
- 3.2.2. Drawings or photographs of the **See drawing No: LTR-Normal-001-B**
tyre sidewall, showing the
information given in paragraph
3.1.8. above and the approval
marking referred to in paragraph
4., shall be submitted once the
production has been established,
but no later than one year after
the date of granting of Type
Approval.
- 3.2.3. In the case of applications
relating to special use tyres, a
copy of the mould drawing of the
tread pattern shall be supplied in
order to allow verification of the
void-to-fill ratio.

Manufacturer's stamp

Signature:

Jamie Hsu

Name: Jamie Hsu



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 : MAXXIS

Tread pattern : CR967

[illegible]

Drawing no: LTR-Normal-001-A

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

Tire size : 185R14C

Tyre performance :

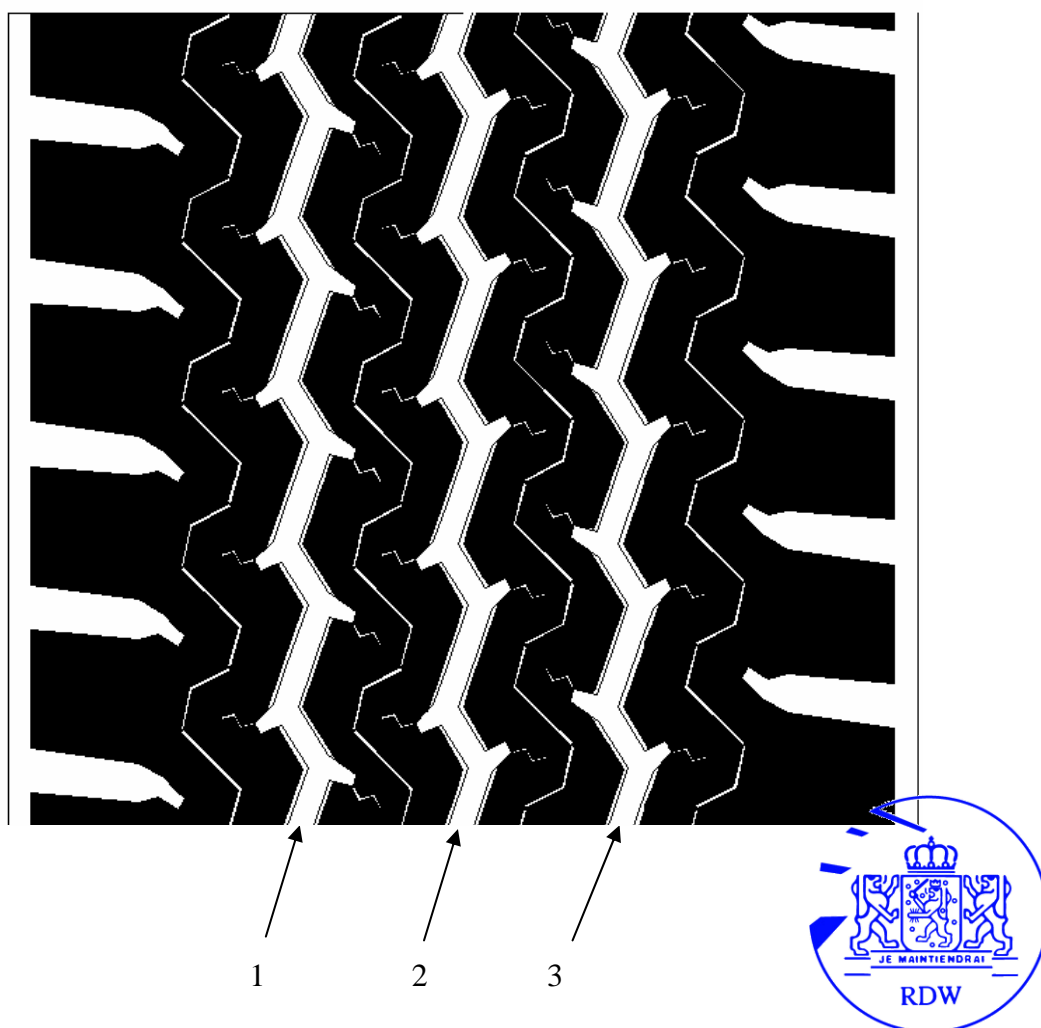
Pitch number : 63

Groove area ratio : 21.63%

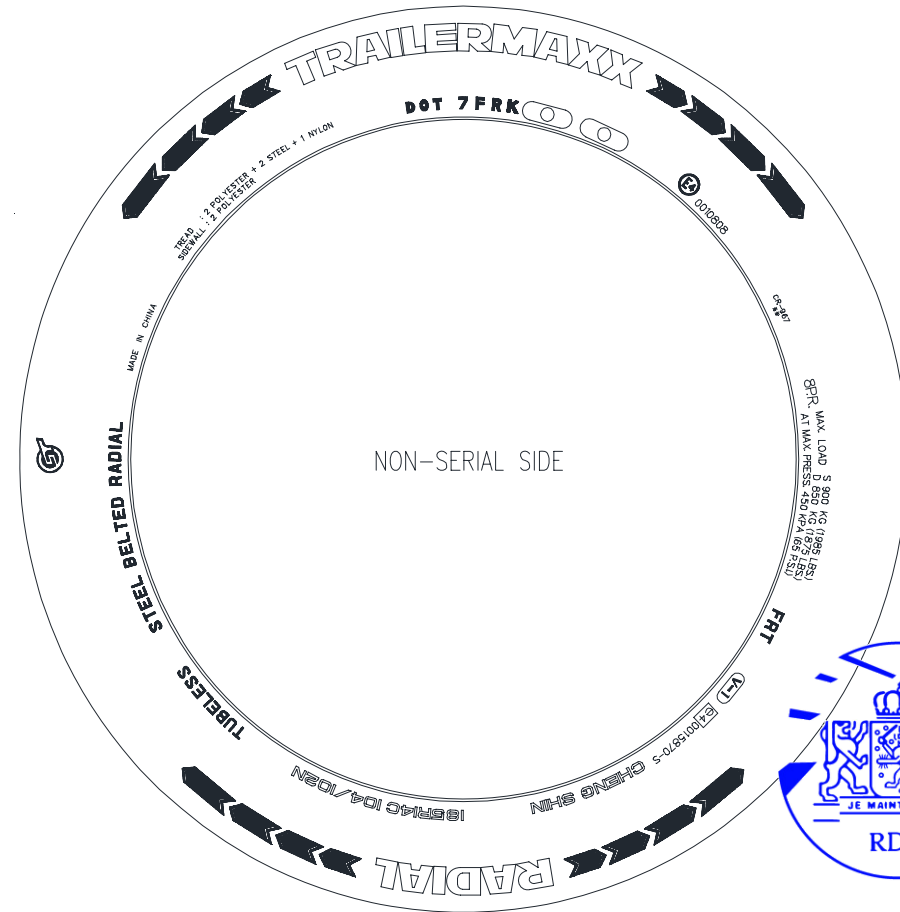
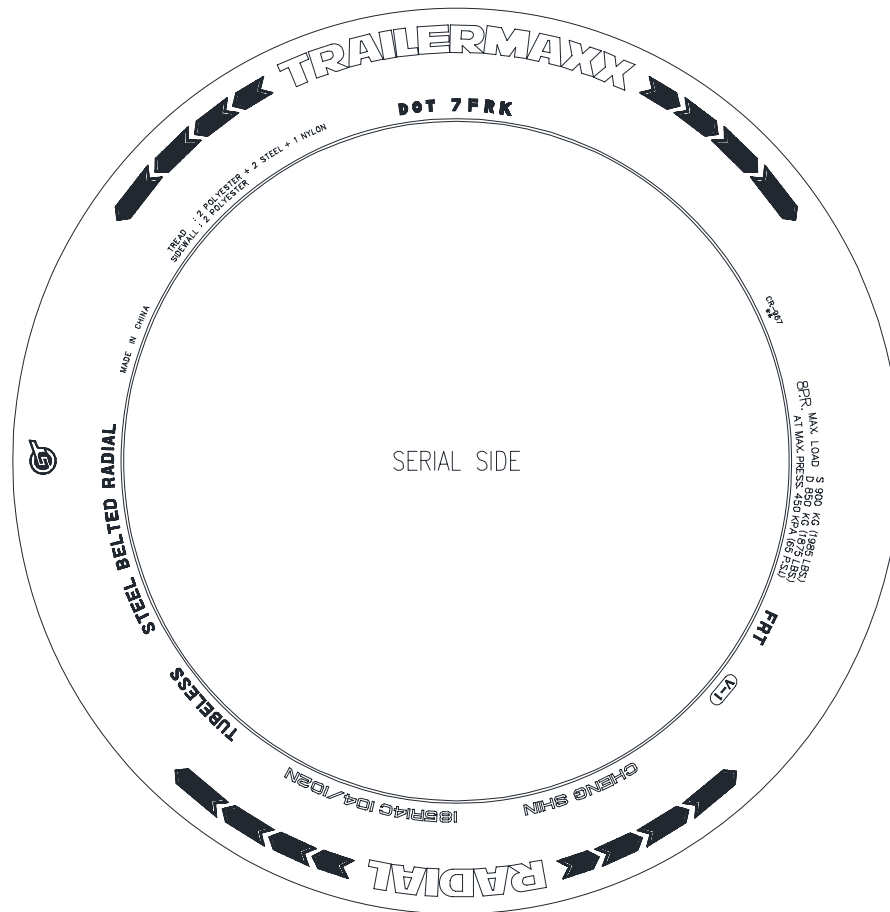
Depth of main/centre shoulder grooves : **8.0mm**

Depth of main/centre shoulder grooves : **8.0mm**

Depth of main/centre shoulder grooves : **8.0mm**



Drawing of the side wall
Drawing no: LTR-Normal-001-B





CHENG SHIN RUBBER IND. CO ., LTD

TEST REPORT

Concerning the measuring of the rolling resistance of a tyre
in accordance with Annex 6 , Appendix 3 of ECE Regulation number 117 - 02

Part 1 Report

- | | | |
|-----|---|--|
| 1 . | Technical Service | : Cheng Shin Rubber Ind. Co ., Ltd
215, Meei-kong Road
Ta-Tsun, Chang-Hwa
Taiwan R.O.C |
| 2 . | Name and address of applicant | : Cheng Shin Rubber Ind. Co ., Ltd
8th FL. , No.50, Sec. 1 Shin-Sheng S.RD,
Taipei ,Taiwan R.O.C |
| 3 . | Test report No. | : CST - 117R - 0000018 |
| 4 . | Manufacturer and Brand name or Trade | : Cheng Shin Rubber Ind. Co ., Ltd
Maxxis CR967 |
| 5 . | Tyre Class (C1, C2 or C3) | : C4 / C2 / C3 |
| 6 . | Category of use | : Normal / Snow / Special |
| 7 . | Rolling resistance coefficient
(temperature and drum diameter corrected) | : 7.96 |
| 8 . | Comments (if any) | : - |
| 9 . | Date | : 9-5-2014 |

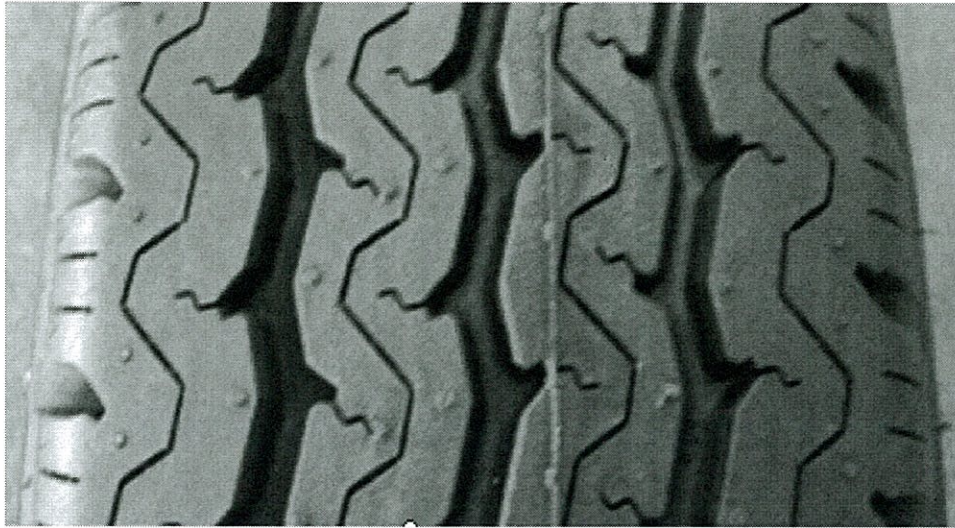


Part 2 Test data

1. Date of test : 9-5-2014
2. Test machine identification and drum diameter / surface : 2260007 , 1708 mm , 3M 80 Grit
3. Test tyre details :
 - 3.1 Tyre size designation and service description : 185R14C , Standard / Reinforced
Load index : 104/102
Speed index : N
 - 3.2. Tyre brand and trade description : Maxxis CR967
 - 3.3. Reference inflation pressure : 450 kPa
4. Test data :
 - 4.1. Measurement method : Force method
 - 4.2. Test speed : 79.88 km/h
 - 4.3. Load : 7504.7 N
 - 4.4. Test inflation pressure , initial : 450 kPa
 - 4.5. Distance from the tyre axis to the drum outer surface under steady state conditions, r_L : ~~C1~~ / C2 / ~~C3~~
: 302.0 mm
 - 4.6. Test rim width and material : 5.5J / Aluminum alloy
 - 4.7. Ambient temperature : 25.12 °C
 - 4.8. Skim test load (except deceleration method) : 149.9 N
 - 4.8.1. Spindle force : 2.424 N
5. Rolling resistance coefficient :
 - 5.1. Initial value (or average in the case of more than 1) : 8.12 N / kN
 - 5.2. Temperature corrected N / kN : 8.13 N / kN
 - 5.3. Temperature and drum diameter corrected : 7.96 N / kN



Photograph of tested tyre :



Maxxis CR967,185R14C

Date : 9-5-2014



Performed by :

Yang Ling Chang

YangLing Chang
TEST ENGINEER

Revised by :

Mike Shih

Mike Shih
SECTION MANAGER