

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- ~~approval withdrawn~~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*54R00/25*20253*12

1. Manufacturer's name and address : Shandong Changfeng Tyres Co., Ltd.
High-tech Development Zone, Guangrao County,
Dongying City, 257335 Shandong Province,
China(PRC)
2. Tyre type designation⁽²⁾
 - 2.1. Brand-name(s) or trade mark(s) : See annex 1 of communication form
 - 2.2. Trade description(s)/ Commercial name(s) : See annex 1 of communication form
3. If applicable, name and address of the manufacturer's representative : not applicable
4. Summarized description
 - 4.1. Size of tyre : 9.00R20
 - 4.2. Category of use : ~~normal~~/snow/special⁽¹⁾
 - 4.3. Structure : ~~diagonal(bias ply)~~/radial⁽¹⁾
 - 4.4. Tyre class : ~~E2~~/C3⁽¹⁾



- 4.5. Speed category symbol:
- 4.5.1. Nominal : K
- 4.5.2. additional (if applicable) : ---
- 4.6. Load-capacity indices:
- 4.6.1. Corresponding to nominal speed:
- single : 144
 - twinned (dual) : 142
- 4.6.2. Corresponding to additional speed:
- single : ---
 - twinned (dual) : ---
5. Technical service and, where applicable, test laboratory approved for purposes of approval or of verification of conformity : TÜV Rheinland Kraftfahrt GmbH
Technischer Dienst
Am Grauen Stein, 51105 Cologne,
Germany
6. Date of report issued by that service : July 21, 2023
7. Number of report issued by that service : 86-R54-2871-23-00
8. Reason(s) of extension (if applicable) : Addition of trade description.
9. Any remarks : ---
10. Place : Zoetermeer
11. Date : 15 August 2023
12. Signature :



R. R. van der Spek

13. 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 7.

Annex 1

2. Tyre type designation⁽²⁾

2.1. Brand-name(s) or trade mark(s) :

ZEETEX; CHANGFENG; SUNFULL; RUIFULAI; FESITE; Green dragon; Agate; CRYSTAL; TORQUE; HIFLY; OVATION; ECOVISION; MIRAGE; MIGEER; GALLANT; TOWNHALL; ONYX; FULLWAY; DAEWOO; SINOTYRE; NISON; SATOYA; PETROMAX; CACHLAND; DERUIBO; XBRI; WOSEN; ROADWING; Satoya; nison; PRIMEWAY; SUNTRAC; CRISTONE; NORMAKS; TEXXAN; NORTEC

2.2. Trade description(s)/ Commercial name(s) :

LZ-01+; LZ-02+; HT-03+; HF606; HF702; HF706; HF708; CS716; TQ702; HH301; VI-702; MG702; HM301; GT702; TH702; HO301; TB901; DWA02; ST011; NS501; CS706; TQ706; HH306; VI-706; MG706; HM306; GT706; TH706; HO306; TQ708; HH105; VI-708; MG708; HM105; GT708; TH708; HO105; CS368; CS720; HH104; VI-606; MG606; HM104; GT606; TH606; HO104; TQ606; NS702; HF307; TQ307; HH307; VI-307; MG307; HM307; GT307; TH307; HO307; HF303; TQ303; HH303; VI-303; MG303; HM303; GT303; TH303; HO303; HF313; TQ313; HH313; VI-313; MG313; HM313; GT313; TH313; HO313; HF168; TQ168; HH168; VI-168; MG168; HM168; GT168; TH168; HO168; HF701; TQ701; HH311; VI-701; MG701; HM311; GT701; TH701; HO311; HF599; TQ599; HH599+; VI-599; MG599; HM599+; GT599; TH599; HO599+; SU-022; PT501; CS504; HF638; GD638; TQ638; HH308A; HM308A; HO308A; MG638; GT638; TH638; CS520; VI-638; 767CAR; 768CDM; GDM768; GDM252; HDM768; EDM768; SDM768; NDM768; FDM768; HAM517; EAM517; SAM517; NAM517; FAM517; GAM517; CH8606; CH8807; CH8861; CH8207; CH8303; CH8607; CH8107; CH8313; GSC606; GAM807; GAO861; GAM207; GDM303; GDM607; GDM107; GDM313; DRB862; DRB892; DRB588; MG158; ECOMIX B1; WS118; WS648; HF666; MG666; VI-666; HH666; HO666; TQ666; CH8666; DRB666; WS666; HF616; MG616; VI-616; HH616; HO616; TQ616; CH8616; DRB616; WS616; PW01; ST102; CT716; HF399; MG399; VI-399; HH399; HO399; TQ399; CH8993; CH8836; DRB399; WS399; SD-062; NU702; TX222; CT504; SU-142B; HF617; MG617; VI-617; HH617; HO617; TQ617; CH8716; DRB617; WS617; ND617; TR All Steel 142; SU-142BM; GL901; HF901es; HH901es; MG901es; VI-901es; HO901es; TQ901es; DRB801es; CF901es; WS901es; ND616; CH901es; CH-901es; DRB901es; CF901es; GL901es; DW901; DW901es; TH901; TH901es; WS606; DRB606; GL606; DW606; TH606; WS128; DRB882; GL708; DW708; TH708; GL702; DW702; TH702; WS668; DRB706; GL706; DW706; TH706; WS808; DRB552; GL701; DW701; TH701; GL313; DW313; TH313; WS816; DRB592; GL638; DW638; TH638; CT520; GL399; DW399; TH399; GL616; DW616; TH616; GL617; DW617; TH617; DAM517; TAM517; HDM252; FDM252; SDM252; NDM252; EDM252; DDM252; TDM252

(1) Strike out what does not apply.

(2) A list of Brand name(s)/trademark(s) or Trade description(s)/ Commercial name(s) may be annexed to this communication



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

- | | | | |
|--------|---|---|---|
| 1. | The Brand name(s) or trademark(s) ⁽²⁾ | : | ZEETEX; CHANGFENG; SUNFULL; RUIFULAI; FESITE;
Green dragon; Agate; CRYSTAL; TORQUE; HIFLY; OVATION;
ECOVISION; MIRAGE; MIGEER; GALLANT; TOWNHALL;
ONYX; FULLWAY; DAEWOO; SINOTYRE; NISON;
SATOYA; PETROMAX; CACHLAND; DERUIBO; XBRI;
WOSEN; ROADWING; Satoya; nison; PRIMEWAY;
SUNTRAC; CRISTONE; NORMAKS; TEXXAN; NORTEC |
| 2. | Trade description(s) or Commercial name(s) ⁽²⁾ | : | LZ-01+; LZ-02+; HT-03+; HF606; HF702; HF706; HF708;
CS716; TQ702; HH301; VI-702; MG702; HM301; GT702;
TH702; HO301; TB901; DWA02; ST011; NS501; CS706;
TQ706; HH306; VI-706; MG706; HM306; GT706; TH706;
HO306; TQ708; HH105; VI-708; MG708; HM105; GT708;
TH708; HO105; CS368; CS720; HH104; VI-606; MG606;
HM104; GT606; TH606; HO104; TQ606; NS702; HF307;
TQ307; HH307; VI-307; MG307; HM307; GT307; TH307;
HO307; HF303; TQ303; HH303; VI-303; MG303; HM303;
GT303; TH303; HO303; HF313; TQ313; HH313; VI-313;
MG313; HM313; GT313; TH313; HO313; HF168; TQ168;
HH168; VI-168; MG168; HM168; GT168; TH168; HO168;
HF701; TQ701; HH311; VI-701; MG701; HM311; GT701;
TH701; HO311; HF599; TQ599; HH599+; VI-599; MG599;
HM599+; GT599; TH599; HO599+; SU-022; PT501; CS504;
HF638; GD638; TQ638; HH308 [Ⓐ] ; HM308 [Ⓐ] ; HO308 [Ⓐ] ;
MG638; GT638; TH638; CS520; VI-638; 767CAR; 768CDM;
GDM768; GDM252; HDM768; EDM768; SDM768; NDM768;
FDM768; HAM517; EAM517; SAM517; NAM517; FAM517;
GAM517; CH8606; CH8807; CH8861; CH8207; CH8303;
CH8607; CH8107; CH8313; GSC606; GAM807; GAO861;
GAM207; GDM303; GDM607; GDM107; GDM313; DRB862;
DRB892; DRB588; MG158; ECOMIX B1; WS118; WS648;
HF666; MG666; VI-666; HH666; HO666; TQ666; CH8666;
DRB666; WS666; HF616; MG616; VI-616; HH616; HO616;
TQ616; CH8616; DRB616; WS616; PW01; ST102; CT716;
HF399; MG399; VI-399; HH399; HO399; TQ399; CH8993;
CH8836; DRB399; WS399; SD-062; NU702; TX222; CT504;
SU-142B; HF617; MG617; VI-617; HH617; HO617; TQ617;
CH8716; DRB617; WS617; ND617; TR All Steel 142; SU-
142BM; GL901; HF901es; HH901es; MG901es; VI-901es;
HO901es; TQ901es; DRB801es; CF901es; WS901es; ND616;
CH901es; CH-901es; DRB901es; CF901es; <u>GL901es; DW901;</u>
<u>DW901es; TH901; TH901es; WS606; DRB606; GL606;</u>
<u>DW606; TH606; WS128; DRB882; GL708; DW708; TH708;</u>
<u>GL702; DW702; TH702; WS668; DRB706; GL706; DW706;</u>
<u>TH706; WS808; DRB552; GL701; DW701; TH701; GL313;</u>
<u>DW313; TH313; WS816; DRB592; GL638; DW638; TH638;</u>
<u>CT520; GL399; DW399; TH399; GL616; DW616; TH616;</u>
<u>GL617; DW617; TH617; DAM517; TAM517; HDM252;</u>
<u>FDM252; SDM252; NDM252; EDM252; DDM252; TDM252</u> |
| 3. | Manufacturer's name and address | : | Shandong Changfeng Tyres Co., Ltd.
High-tech Development Zone, Guangrao County,
Dongying City, Shandong Province, 257335 China
(PRC) |
| 4. | If applicable, name and address of
manufacturer's representative | : | not applicable |
| 5. | Summarised description, | | |
| 5.1. | Tyre size designation | : | 9.00R20 |
| 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 | : | K |
| 5.4.2. | Additional (if applicable) | : | not applicable |
| 5.5. | Load capacity indices | | |

(1) Strike out what does not apply.

(2) Modified points are underlined for extension.

- | | | | |
|--------|---|---|--|
| 5.5.1. | corresponding to nominal speed | : | single: 144, twinned (dual): 142 |
| 5.5.1. | corresponding to additional speed | : | single: ---, twinned (dual): --- |
| 6. | Overall dimensions | : | Calculated /Annex 5 ⁽¹⁾ |
| | overall section width | : | 257.4 |
| | outer diameter | : | 1016.4 |
| 7. | Factor 'x' | : | 0.46 |
| 8. | Ply-rating number for diagonal (bias ply) tyres | : | 16 |
| 9. | Rims on which the tyre can be mounted | : | 7.0 |
| 10. | Measuring rim and test rim | : | see attached test report |
| 11. | Tyre class | : | E2 / C3 ⁽¹⁾ |
| 12. | State whether the tyre is | : | tube less / tube type ⁽¹⁾ |
| 13. | Traction tyre | : | Yes / no (see the tread pattern detail in drawing) ⁽¹⁾ |
| 14. | State if special use tyre | : | Yes / no ⁽¹⁾ (with M+S inscription) |
| | Professional Off-Road | : | Yes / no ⁽¹⁾ |
| | Tread depth / Void to fill ratio | : | n.a. |
| 15. | The inflation pressure for the dimension measurement and for the load/speed endurance test pressure | : | See attached test report |
| 16. | Submitted for approval on (date) | : | Jul 11, 2023 |

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 :

朱立新

Name: Zhu Lixin

THIS APPLICATION IS ACCOMPANIED BY:

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

(1) Strike out what does not apply.

(2) Modified points are underlined for extension.

Type : 9.00R20

Manufacturer : Shandong Changfeng Tyres Co., Ltd.

TEST REPORT

according to UN Regulation

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

UN-Regulation No.54

including all amendments until

Amend.00, Suppl. 25

Approval Status

UN approval : E4*54R00/25*20253*11

Structure of the Test Report

Item No.

0. General information
 1. Tested ~~vehicle(s)~~ / object(s)
 2. Test 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 Technical Service.

Type : 9.00R20
Manufacturer : Shandong Changfeng Tyres Co., Ltd.

0. General Information

- 0.1. Make (trade name of the manufacturer) : Shandong Changfeng Tyres Co., Ltd.
- 0.2. Type : 9.00R20
- 0.3. Category of vehicle : Not applicable
- 0.4. Name and address of the manufacturer : Shandong Changfeng Tyres Co., Ltd.
High-tech Development Zone, Guangrao County,
Dongying City, 257335 Shandong Province,
China(PRC)
- 0.5. No. of the information folder : Not applicable
-Date of issue : ---
-Date of last change : July 21, 2023

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

- 1.1. Description
- 1.1.1. ~~Vehicle~~ / object
- Commercial description : Not applicable
- Type(s) ~~/variant(s) /version(s)~~ : 9.00R20
- 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 (MS-0000480 section 5.6).

~~Only one variant/version, so no worst case assessment required.~~

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

Paperwork extension, please see previous test report(s) for worst case information.
- 1.3. Remarks : Not applicable

Type : 9.00R20**Manufacturer : Shandong Changfeng Tyres Co., Ltd.****2. Test 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 : Not applicable
- 2.1.2. Subcontracting : Not applicable
- 2.2. Test results : See Appendix 1
- Numbering according to Paragraph 6. and 7. of the UN R54
- 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 : Shandong Hengfeng Rubber & Plastic Co., Ltd.
 Dawang Town, Guangrao County,
 Shandong Province, 257335 China(PRC)
- Test date : August 09-11, 2008 for sample 1
 June 04-07, 2015 for sample 2
- 2.4. Remarks : Not applicable

Type : 9.00R20**Manufacturer : Shandong Changfeng Tyres Co., Ltd.**

3. List of Appendices

Appendix 0 : List of modifications

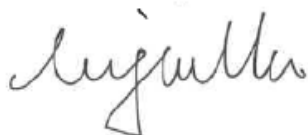
Appendix 1 : Test minutes

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 / July 21, 2023

WMJ



Mingjun Wu
Technical Expert Technical Service

Type : 9.00R20
Manufacturer : Shandong Changfeng Tyres Co., Ltd.

List of modifications

Appendix 0

Correction of	: ---
Modification of	: ---
Addition of	: Trade description
Deletion of	: ---

Type : 9.00R20

Manufacturer : Shandong Changfeng Tyres Co., Ltd.

Test minutes

Appendix 1

1. Test data**1.1 Object markings****1.1.1 Sample 1**

1.1.1.1	Trade name or mark	:	---	
1.1.1.2	Tyre type designation	:	---	
1.1.1.3	Plies of Tread / Sidewall	:	4 STEEL / 1 STEEL	
1.1.1.4	Tyre size designation	:	9.00R20	
1.1.1.5	Category of use	:	Snow	
	Indication of category of use	:	word "M+S"	
1.1.1.6	Structure	:	Radial	
	Indication / symbol of structure	:	Word "RADIAL", letter "R" in front of rim diameter marking	
1.1.1.7	Speed category	:	Nominal: K	Supplementary: ---
1.1.1.8	Load-Capacity Indices(L.I.)	:		
	corresponding to nominal speed	:	Single: 144	Twinned: 142
	corresponding to supplementary speed	:	Single: ---	Twinned: ---
1.1.1.9	Index of inflation pressure for testing	:	900 kPa	
1.1.1.10	Ply-rating number	:	16	
1.1.1.11	Word in case of without inner tube	:	TUBE TYPE	
1.1.1.12	Word in case of tyre can be regrooved	:	REGROOVABLE	
1.1.1.13	Inscription in case of Free Rolling Tyre or Traction Tyre	:	Not applicable	
1.1.1.14	Date of manufacture	:	3208	

1.1.2 Sample 2

1.1.2.1	Trade name or mark	:	CATCHLAND	
1.1.2.2	Tyre type designation	:	767CAR	
1.1. 2.3	Plies of Tread / Sidewall	:	5 STEEL / 1 STEEL	
1.1. 2.4	Tyre size designation	:	9.00R20	
1.1. 2.5	Category of use	:	Snow	
	Indication of category of use	:	word "M+S"	
1.1. 2.6	Structure	:	Radial	
	Indication / symbol of structure	:	Word "RADIAL", letter "R" in front of rim diameter marking	
1.1. 2.7	Speed category	:	Nominal: K	Supplementary: ---

Type : 9.00R20**Manufacturer : Shandong Changfeng Tyres Co., Ltd.**

1.1. 2.8	Load-Capacity Indices(L.I.)		
	corresponding to nominal speed	: Single: 144	Twinned: 142
	corresponding to supplementary speed	: Single: ---	Twinned: ---

1.1. 2.9	Index of inflation pressure for testing	: 900 kPa
----------	---	-----------

1.1. 2.10	Ply-rating number	: 16
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1.1. 2.11	Word in case of without inner tube	: TUBE TYPE
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1.1. 2.12	Word in case of tyre can be regrooved	: REGROOVABLE
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1.1. 2.13	Inscription in case of Free Rolling Tyre or Traction Tyre	: Not applicable
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1.1. 2.14	Date of manufacture	: 2015
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1.2. Dimension measurement according to Annex 6 for sample 1

1.2.1	Measuring rim	: 7.0-20
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1.2.2	Inflation pressure after mounting on measuring rim	: 900 kPa
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1.2.3	Inflation pressure adjusted before conditioning	: 900 kPa
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1.2.4	Conditioning of tyre	: More than 24 hours
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1.2.5	Inflation pressure readjusted after conditioning	: 900 kPa
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1.2.6	Overall width at six equally spaced points	
	1. 260.3 mm 2. 260.4 mm 3. 260.5 mm	
	4. 260.2 mm 5. 260.1 mm 6. 260.8 mm	
	Max.: 260.8 mm	

1.2.7	Circumference	: 3200 mm
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1.2.8	Outer diameter	: 1018.6 mm
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1.2.9	Tread depth / void to fill ratio in case of special use tyre	: Not applicable
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1.3. Load/speed performance test according to Annex 7 for sample 1

1.3.1	Test machine	: PC/LT-2-350-Y
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1.3.2	Diameter of test drum	: 1.707 m
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1.3.3	Test rim	: 7.0-20
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1.3.4	Inflation pressure adjusted before conditioning	: 900 kPa
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1.3.5	Conditioning of tyre	: More than 3 hours
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1.3.6	Test-room temperature	: 23°C
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Type : 9.00R20
Manufacturer : Shandong Changfeng Tyres Co., Ltd.

1.3.7 Inflation pressure readjusted after conditioning : 900 kPa

1.3.8 100% load corresponding to L.I.(single) : 2800 kg

Step	Step duration [h]	Total duration [h]	Actual speed [km.h ⁻¹]	Test Load	
				[%]	[kg]
1.	7	7	56	66	1848
2.	16	23	56	84	2352
3.	24	47	56	101	2828

1.3.9 Inspection after test : The tyre does not exhibit tread separation, ply separation, cord separation, chunking or broken cords.

1.4. Dimension measurement according to Annex 6 for sample 2

1.4.1 Measuring rim : 7.0-20

1.4.2 Inflation pressure after mounting on measuring rim : 900 kPa

1.4.3 Inflation pressure adjusted before conditioning : 900 kPa

1.4.4 Conditioning of tyre : More than 24 hours

1.4.5 Inflation pressure readjusted after conditioning : 900 kPa

1.4.6 Overall width at six equally spaced points

1.	257.0 mm	2.	257.1 mm	3.	257.4 mm
4.	257.3 mm	5.	256.9 mm	6.	256.7 mm
Max.: 257.4 mm					

1.4.7 Circumference : 3193 mm

1.4.8 Outer diameter : 1016.4 mm

1.4.9 Tread depth / void to fill ratio in case of special use tyre : Not applicable

1.5. Load/speed performance test according to Annex 7 for sample 2

1.5.1 Test machine : TB-2-200-Y

1.5.2 Diameter of test drum : 1.707 m

1.5.3 Test rim : 7.0-20

1.5.4 Inflation pressure adjusted before conditioning : 900 kPa

1.5.5 Conditioning of tyre : More than 3 hours

1.5.6 Test-room temperature : 26°C

1.5.7 Inflation pressure readjusted after conditioning : 900 kPa

Test Report No. 86-R54-2871-23-00**Type : 9.00R20****Manufacturer : Shandong Changfeng Tyres Co., Ltd.**

1.5.8 100% load corresponding to L.I.(single) : 2800 kg

Step	Step duration [h]	Total duration [h]	Actual speed [km.h ⁻¹]	Test Load	
				[%]	[kg]
1.	7	7	56	66	1848
2.	16	23	56	84	2352
3.	24	47	56	101	2828

1.5.9 Inspection after test : The tyre does not exhibit tread separation, ply separation, cord separation, chunking or broken cords.

2. **Remarks** : The test data for sample 1&2 refer to report No.:86-R54-1139/22-00 corresponding to type approval No. E4*54R00/24*20253*09