

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- ~~approval withdrawn~~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 for motor vehicles pursuant to Regulation number 54.

Approval number: E4*54R00/25*24105*13

1. Manufacturer's name and address : Shandong Changfeng Tyres Co., Ltd.
High-tech Development Zone, Guangrao County,
Dongying City, Shangdong Province, 257335
China (PRC)
2. Tyre type designation ⁽²⁾ :
- 2.1. Brand name(s)/trademark(s) : FULLWAY or DAEWOO or HIFLY or
MIGEER or ONYX or SUNFULL or
CHANGFENG or RUIFULAI or FESITE or
Green dragon or Agate or MIRAGE or
SINOTYRE or OVATION or TORQUE or
GALLANT or TEMPO or CONVOY or BRIC or
LEXANI or FUJITIRE or UNIX or ZEETEX or
OTANI or CRYSTAL or TUFFSTONE or
BRISTOL or NISON or SATOYA or
NORMAKS or CACHLAND or MARATHON
or DERUIBO or INFINITY or ETERNITY or
DURABLE or WOSEN or ROADWING or
SAYAN or TEXXAN or XBRI or Satoya or
nison or PRIMEWAY or PETROMAX or
SUNTRAC or CRISTONE or TOWNHALL



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

: TB901 or DWA02 or HH301 or HM301 or HO301 or HF702 or MG702 or ST011 or VI-702 or TQ702 or GT702 or TM702 or CV702 or JA-702 or LX702 or FJ01 or X-F01+ or LZ-01+ or OL700+ or CS716 or TT801 or BT08 or NS501 or HH306 or HM306 or HO306 or HF706 or MG706 or VI-706 or TQ706 or GT706 or TM706 or CV706 or JA-706 or LX706 or CS706 or HH317 or HM317 or HO317 or HF707 or MG707 or VI-707 or TQ707 or GT707 or TM707 or CV707 or JA-707 or LX707 or CS718 or HH105 or HM105 or HO105 or HF708 or MG708 or VI-708 or TQ708 or GT708 or TM708 or CV708 or JA-708 or LX708 or CS368 or LZ-02+ or OL701+ or TF802 or HF709 or MG709 or VI-709 or TQ709 or GT709 or TM709 or CV709 or JA-709 or LX709 or HH104 or HM104 or HO104 or HF606 or MG606 or VI-606 or TQ606 or GT606 or TM606 or CV606 or JA-606 or LX606 or CS720 or HT-03+ or OH900+ or FJ02 or TF803 or NS702 or HF719 or MG719 or VI-719 or TQ719 or GT719 or TM719 or CV719 or JA-719 or LX719 or HH329 or HM329 or HO329 or HF729 or MG729 or VI-729 or TQ729 or GT729 or TM729 or CV729 or JA-729 or LX729 or BT200 or HH308A or HM308A or HO308A or HF638 or MG638 or VI-638 or TQ638 or GT638 or TM638 or CV638 or JA-638 or LX638 or ST032 or TZ-06+ or OR805+ or FJ659 or X-F06+ or HH368 or HM368 or HO368 or HF668 or MG668 or VI-668 or TQ668 or GT668 or TM668 or CV668 or JA-668 or LX668 or CS990 or X-F08+ or TB755 or HH307 or HM307 or HO307 or HF307 or MG307 or VI-307 or TQ307 or GT307 or TM307 or CV307 or JA-307 or LX307 or HH303 or HM303 or HO303 or HF303 or MG303 or VI-303 or TQ303 or GT303 or TM303 or CV303 or JA-303 or LX303 or HH313 or HM313 or HO313 or HF313 or MG313 or VI-313 or TQ313 or GT313 or TM313 or CV313 or JA-313 or LX313 or HH599+ or HM599+ or HO599+ or HF599 or MG599 or VI-599 or TQ599 or GT599 or TM599 or CV599 or JA-599 or LX599 or HH311 or HM311 or HO311 or HF701 or MG701 or VI-701 or TQ701 or GT701 or TM701 or CV701 or JA-701 or LX701 or SU-022 or SD-062 or HH308A or HM308A or HO308A or NU702 or CH8207 or GAM207 or CH8607 or GDM607 or CH8707 or GAO707 or CH8807 or GAM807 or CH8606 or GSC606 or CH8927 or GDM927 or CH8836 or GDC836 or CH8866 or GDC866 or CH8703 or GAM703 or CH8303 or GDM303 or CH8313 or GDM313 or



CH8995+ or GAC995+ or CH8107 or GDM107 or HF768 or HH302 or HM302 or HO302 or MG768 or VI-768 or TQ768 or CS820 or NS612 or CH8867 or GDM867 or M768 or GD768 or HF505 or HH505 or HM505 or HO505 or MG505 or VI-505 or TQ505 or CH8505 or GDC505 or GD505 or DRB588 or DRB892 or DRB862 or IXA777 or EXA777 or DR609 or DR602 or MG158 or M1020 or HF1020 or HH1020 or MG1020 or VI-1020 or HO1020 or WS118 or SA695 or TX222 or WS128 or WS648 or WS678 or ECOMIX B1 or TX965 or PW01 or PT501 or ST102 or CT716 or DRB882 or DRB606 or WS606 or DRB559 or DRB706 or WS668 or PT539 or PT506+ or PT508+ or PT624 or DRB552 or WS808 or DRB592 or WS816 or DRB585 or WS836 or HF900 or DRB596 or WS729 or DRB307 or WS307 or DRB505 or WS505 or CS520 or CT520 or CS504 or CT504 or CT820 or HF555 or MG555 or VI-555 or HH555 or HO555 or TQ555 or CH8555 or DRB555 or WS555 or HF626 or MG626 or VI-626 or HH626 or HO626 or TQ626 or CH8626 or DRB626 or WS626 or HF324 or MG324 or VI-324 or HH324 or HO324 or TQ324 or CH8423 or DRB324 or WS324 or HF702N or MG702N or VI-702N or HH301N or HO301N or TQ702N or CH8207N or DRB862N or WS118N or AG915 or AG925 or HF616 or MG616 or VI-616 or HH616 or HO616 or TQ616 or CH8616 or DRB616 or WS616 or HF666 or MG666 or VI-666 or HH666 or HO666 or TQ666 or CH8666 or DRB666 or WS666 or AT777 or AT999 or HO866XL or SU-281 or GL901 or HF901es or HH901es or MG901es or VI-901es or HO901es or TQ901es or DRB801es or CF901es or WS901es or ND616 or ND626 or SU-142BM or DRB901es or CH901es or CH-901es or GL901es or DW901 or DW901es or TH901 or TH901es or GL606 or DW606 or TH606 or GL708 or DW708 or TH708 or GL702 or DW702 or TH702 or GL702N or DW702N or TH702N or GL768 or DW768 or TH768 or WS768 or GL706 or DW706 or TH706 or GL307 or DW307 or TH307 or GL638 or DW638 or TH638 or GL701 or DW701 or TH701 or GL313 or DW313 or TH313 or GL707 or DW707 or TH707 or GL729 or DW729 or TH729 or GL900 or DW900 or TH900 or WS900 or DRB900 or GL505 or DW505 or TH505 or GL616 or DW616 or TH616 or GL626 or DW626 or TH626 or HH399 or HF399 or CH8993 or MG399 or HO399 or VI-399 or TQ399 or WS399 or DRB399 or GL399 or DW399 or TH399 or HAM517 or FAM517 or SAM517 or



767CAR or NAM517 or EAM517 or GAM517
or DAM517 or TAM517 or HDM252 or
FDM252 or SDM252 or 768CDM or NDM252
or EDM252 or GDM252 or DDM252 or
TDM252

3. If applicable, name and address of the manufacturer's representative : Not applicable
4. Summarized description:
- 4.1. Tyre-size designation : 10.00R20
- 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 : 149
- twinned (dual) : 146
- 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 SÜD Auto Service GmbH
Westendstraße 199
D-80686 München
6. Date of report issued by that service : 2022-08-11;
2023-03-18;
2023-07-24
7. Number of report issued by that service : 86-R54-2161/22-00;
22-01677-CX-SHA-01;
22-01677-CX-SHA-02
8. Reason(s) for extension (if applicable) : Addition of trademark and tread pattern;
Addition of construction variant
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.

⁽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.

Test report No.: 22-01677-CX-SHA-02
Manufacturer: Shandong Changfeng Tyres Co., Ltd.
Type: 10.00R20 149/146K M+S



Test Report

No.: 22-01677-CX-SHA-02

Test of a type of component
with regard to UN/ECE Regulation No.

54

including all amendments up to
supplement 25 to the 00 series

Approval subject:
pneumatic tyres
for commercial vehicles and their trailers

Stage of completion:
N/A

Approval status	
☐	Granting of a type approval
☒	Extension/correction to type approval no. : E4*54R00/25*24105*12

I. General

- Name and address of manufacturer : Shandong Changfeng Tyres Co., Ltd.
High-tech Development Zone, Guangrao County,
Dongying City, Shangdong Province, 257335
China (PRC)
- Brand name(s)/trademark(s) : FULLWAY or DAEWOO or HIFLY or MIGEER or
ONYX or SUNFULL or CHANGFENG or RUIFULAI
or FESITE or Green dragon or Agate or MIRAGE or
SINOTYRE or OVATION or TORQUE or GALLANT
or TEMPO or CONVOY or BRIC or LEXANI or FU-
JITIRE or UNIX or ZEETEX or OTANI or CRYSTAL
or TUFFSTONE or BRISTOL or NISON or
SATOYA or NORMAKS or CACHLAND or MARA-
THON or DERUIBO or INFINITY or ETERNITY or
DURABLE or WOSEN or ROADWING or SAYAN
or TEXXAN or XBRI or Satoya or nison or PRIME-
WAY or PETROMAX or SUNTRAC or CRISTONE
or TOWNHALL
- Trade description (s)/Commercial
name(s) : TB901 or DWA02 or HH301 or HM301 or HO301
or HF702 or MG702 or ST011 or VI-702 or TQ702
or GT702 or TM702 or CV702 or JA-702 or LX702
or FJ01 or X-F01+ or LZ-01+ or OL700+ or CS716
or TT801 or BT08 or NS501 or HH306 or HM306
or HO306 or HF706 or MG706 or VI-706 or TQ706
or GT706 or TM706 or CV706 or JA-706 or LX706
or CS706 or HH317 or HM317 or HO317 or
HF707 or MG707 or VI-707 or TQ707 or GT707 or
TM707 or CV707 or JA-707 or LX707 or CS718 or
HH105 or HM105 or HO105 or HF708 or MG708
or VI-708 or TQ708 or GT708 or TM708 or CV708
or JA-708 or LX708 or CS368 or LZ-02+ or
OL701+ or TF802 or HF709 or MG709 or VI-709
or TQ709 or GT709 or TM709 or CV709 or JA-709
or LX709 or HH104 or HM104 or HO104 or HF606
or MG606 or VI-606 or TQ606 or GT606 or TM606
or CV606 or JA-606 or LX606 or CS720 or HT-
03+ or OH900+ or FJ02 or TF803 or NS702 or
HF719 or MG719 or VI-719 or TQ719 or GT719 or
TM719 or CV719 or JA-719 or LX719 or HH329 or
HM329 or HO329 or HF729 or MG729 or VI-729
or TQ729 or GT729 or TM729 or CV729 or JA-729
or LX729 or BT200 or HH308A or HM308A or



Auto Service

Test report No.: 22-01677-CX-SHA-02
Manufacturer: Shandong Changfeng Tyres Co., Ltd.
Type: 10.00R20 149/146K M+S

HO308A or HF638 or MG638 or VI-638 or TQ638
or GT638 or TM638 or CV638 or JA-638 or LX638
or ST032 or TZ-06+ or OR805+ or FJ659 or X-
F06+ or HH368 or HM368 or HO368 or HF668 or
MG668 or VI-668 or TQ668 or GT668 or TM668 or
CV668 or JA-668 or LX668 or CS990 or X-F08+ or
TB755 or HH307 or HM307 or HO307 or HF307 or
MG307 or VI-307 or TQ307 or GT307 or TM307 or
CV307 or JA-307 or LX307 or HH303 or HM303 or
HO303 or HF303 or MG303 or VI-303 or TQ303 or
GT303 or TM303 or CV303 or JA-303 or LX303 or
HH313 or HM313 or HO313 or HF313 or MG313
or VI-313 or TQ313 or GT313 or TM313 or CV313
or JA-313 or LX313 or HH599+ or HM599+ or
HO599+ or HF599 or MG599 or VI-599 or TQ599
or GT599 or TM599 or CV599 or JA-599 or LX599
or HH311 or HM311 or HO311 or HF701 or
MG701 or VI-701 or TQ701 or GT701 or TM701 or
CV701 or JA-701 or LX701 or SU-022 or SD-062
or HH308[®] or HM308[®] or HO308[®] or NU702 or
CH8207 or GAM207 or CH8607 or GDM607 or
CH8707 or GAO707 or CH8807 or GAM807 or
CH8606 or GSC606 or CH8927 or GDM927 or
CH8836 or GDC836 or CH8866 or GDC866 or
CH8703 or GAM703 or CH8303 or GDM303 or
CH8313 or GDM313 or CH8995+ or GAC995+ or
CH8107 or GDM107 or HF768 or HH302 or
HM302 or HO302 or MG768 or VI-768 or TQ768
or CS820 or NS612 or CH8867 or GDM867 or
M768 or GD768 or HF505 or HH505 or HM505 or
HO505 or MG505 or VI-505 or TQ505 or CH8505
or GDC505 or GD505 or DRB588 or DRB892 or
DRB862 or IXA777 or EXA777 or DR609 or
DR602 or MG158 or M1020 or HF1020 or
HH1020 or MG1020 or VI-1020 or HO1020 or
WS118 or SA695 or TX222 or WS128 or WS648
or WS678 or ECOMIX B1 or TX965 or _PW01 or
PT501 or ST102 or CT716 or DRB882 or DRB606
or WS606 or DRB559 or DRB706 or WS668 or
PT539 or PT506+ or PT508+ or PT624 or
DRB552 or WS808 or DRB592 or WS816 or
DRB585 or WS836 or HF900 or DRB596 or
WS729 or DRB307 or WS307 or DRB505 or
WS505 or CS520 or CT520 or CS504 or CT504 or



Auto Service

Test report No.: 22-01677-CX-SHA-02
Manufacturer: Shandong Changfeng Tyres Co., Ltd.
Type: 10.00R20 149/146K M+S

CT820 or HF555 or MG555 or VI-555 or HH555 or
HO555 or TQ555 or CH8555 or DRB555 or
WS555 or HF626 or MG626 or VI-626 or HH626
or HO626 or TQ626 or CH8626 or DRB626 or
WS626 or HF324 or MG324 or VI-324 or HH324
or HO324 or TQ324 or CH8423 or DRB324 or
WS324 or HF702N or MG702N or VI-702N or
HH301N or HO301N or TQ702N or CH8207N or
DRB862N or WS118N or AG915 or AG925 or
HF616 or MG616 or VI-616 or HH616 or HO616
or TQ616 or CH8616 or DRB616 or WS616 or
HF666 or MG666 or VI-666 or HH666 or HO666
or TQ666 or CH8666 or DRB666 or WS666 or
AT777 or AT999 or HO866XL or SU-281 or
GL901 or HF901es or HH901es or MG901es or
VI-901es or HO901es or TQ901es or DRB801es
or CF901es or WS901es or ND616 or ND626 or
SU-142BM or DRB901es or CH901es or CH-
901es or GL901es or DW901 or DW901es or
TH901 or TH901es or GL606 or DW606 or TH606
or GL708 or DW708 or TH708 or GL702 or
DW702 or TH702 or GL702N or DW702N or
TH702N or GL768 or DW768 or TH768 or WS768
or GL706 or DW706 or TH706 or GL307 or
DW307 or TH307 or GL638 or DW638 or TH638
or GL701 or DW701 or TH701 or GL313 or
DW313 or TH313 or GL707 or DW707 or TH707
or GL729 or DW729 or TH729 or GL900 or
DW900 or TH900 or WS900 or DRB900 or GL505
or DW505 or TH505 or GL616 or DW616 or
TH616 or GL626 or DW626 or TH626 or HH399 or
HF399 or CH8993 or MG399 or HO399 or VI-399
or TQ399 or WS399 or DRB399 or GL399 or
DW399 or TH399 or HAM517 or FAM517 or
SAM517 or 767CAR or NAM517 or EAM517 or
GAM517 or DAM517 or TAM517 or HDM252 or
FDM252 or SDM252 or 768CDM or NDM252 or
EDM252 or GDM252 or DDM252 or TDM252

Name and address of representative: : Not applicable
Size of tyre: : 10.00R20 149/146K M+S
Tyre class: : ~~C2~~/C3
Location of the approval mark: : On the sidewall

II. Test results

Refer to the Annex II

III. Enclosures

Information document see application form dated 2023-07-11 (yyyy-mm-dd)

IV. Statement of conformity

The mentioned information folder and the type described therein are in accordance with the test basis mentioned above. Sampling plan or method result from the requirements of the test basis. The worst-case configuration was selected in accordance with process description "Requirements for Test Reports (AS-PB-T-02)". Valid decision rule in accordance with ILAC G8:2019, 4.2.1: in question of meeting the limits the measurement uncertainty was ignored.

The manufacturer is responsible for the information (III.) and the test specimens provided by him. The test results relate only to the test specimens as received and mentioned (II.). The test specimens are representative for the type described (III.).

The test report may be reproduced and published in full and by the client only. It can be reproduced partially with the written permission of the test laboratory only.

Test report No.: 22-01677-CX-SHA-02
Manufacturer: Shandong Changfeng Tyres Co., Ltd.
Type: 10.00R20 149/146K M+S



TÜV SÜD Auto Service GmbH is designated as Technical Service by:

Approval authority	Country	Registration number
Kraftfahrt-Bundesamt (KBA)	Germany	KBA-P 00100-10
Vehicle Certification Agency (VCA)	United Kingdom	VCA-TS-006
Approval Authority of the Netherlands (RDW)	The Netherlands	RDWT-082-xx
National Standards Authority of Ireland (NSAI)	Ireland	Technical Service Number: 49
Société Nationale de Certification et d'Homologation s.a. (SNCH)	Luxembourg	13/B(g)
Swedish Transport Agency (STA)	Sweden	TT 0024

München, 2023-07-24 (yyyy-mm-dd)



Xiaopeng Li



Auto Service

Test report No.: 22-01677-CX-SHA-02
Manufacturer: Shandong Changfeng Tyres Co., Ltd.
Type: 10.00R20 149/146K M+S

Annex I Reason of Extension

Correction of : ---

Modification of : ---

Addition of : Trademark and tread pattern
Construction variant

Deletion of : ---

Test report No.: 22-01677-CX-SHA-02
 Manufacturer: Shandong Changfeng Tyres Co., Ltd.
 Type: 10.00R20 149/146K M+S

Annex II Test results

Part I Variant 1

1. Description of the test object

- | | | |
|-------|--|--|
| 1.1. | Trade mark | : HIFLY |
| 1.2. | Tread pattern | : HH301 |
| 1.3. | Plies | |
| | Tread | : 4 Steel |
| | Side wall | : 1 Steel |
| 1.4. | Tyre-size designation | : 10.00R20 |
| 1.5. | Category of use | : Normal/snow/special |
| 1.6. | For the tyre belonging to the category of use "special use tyre" those which bears the inscription M+S or M.S or M&S | : Not applicable |
| 1.7. | Structure | : Diagonal (bias-ply) /radial |
| 1.8. | Speed category symbol | : Nominal: K, additional: --- |
| 1.9. | Load-capacity indexes | |
| | Corresponding to nominal speed | : Single: 149 , twinned: 146 |
| | Corresponding to additional speed | : Single: --- , twinned: --- |
| 1.10. | The inflation pressure for the dimension measurement and for the load/speed endurance test pressure | : 930 kPa |
| 1.11. | Indication | : Tubeless /tube type |
| 1.12. | Regroovable | : Yes/æ |
| 1.13. | Date of manufacture | : 1218 |

2. Measurement according to Annex 6

- | | | |
|------|--|------------|
| 2.1. | Measuring rim | : 7.5 X 20 |
| 2.2. | Ambient room temperature | : --- |
| 2.3. | Inflation pressure | : 930 kPa |
| 2.4. | Inflation pressure(readjusted before conditioning) | : 930 kPa |

Test report No.: 22-01677-CX-SHA-02
Manufacturer: Shandong Changfeng Tyres Co., Ltd.
Type: 10.00R20 149/146K M+S

- 2.5. Duration of conditioning of mounted tyre pre-measuring at ambient room temperature : More than 24 hours
- 2.6. Inflation pressure(readjusted after conditioning) : 930 kPa
- 2.7. Overall width at six equally spaced points
1. 276.2 mm
2. 276.3 mm
3. 276.1 mm
4. 276.2 mm
5. 276.1 mm
6. 276.4 mm
Max.: 276.4 mm
- 2.8. Circumference : 3308 mm
- 2.9. Outer diameter : 1053.0 mm
- 2.10. Limit value
Overall width : ≤ 286 mm
Outer diameter : $1036 \text{ mm} \leq OD \leq 1085 \text{ mm}$
- 3. Load/speed performance test according to Annex 7**
- 3.1. Test machine : TB-2-200-Y
- 3.2. Diameter of test drum : 1.707 m
- 3.3. Test rim : 7.5 X 20
- 3.4. Test-room temperature : 25 °C
- 3.5. Inflation pressure(readjusted before conditioning) : 930 kPa
- 3.6. Duration of conditioning of mounted tyre pre-testing at test-room temperature : More than 3 hours
- 3.7. Inflation pressure(readjusted after conditioning) : 930 kPa
- 3.8. Circumference after conditioning, before testing : ---
- 3.9. Outer diameter : ---
- 3.10. Load corresponding load index(100%) : 3250 kg
- 3.11. Test-drum speed : 56 km.h⁻¹

Test report No.: 22-01677-CX-SHA-02
 Manufacturer: Shandong Changfeng Tyres Co., Ltd.
 Type: 10.00R20 149/146K M+S

Step	Step-duration	Total duration	Testing load	
	[h]	[h]	[%]	[kg]
1	7	7	66	2145
2	16	23	84	2370
3	24	47	101	3282

- 3.12. Defect after load/speed test: : Without
- 3.13. Duration of conditioning after testing at test-room temperature : ---
- 3.14. Inflation pressure(readjusted after conditioning) : ---
- 3.15. Circumference after conditioning, after testing : ---
- 3.16. Outer diameter : ---
- 3.17. Difference outer diameter before and after Testing (max. 3.5 %) : ---
4. **Place and date of the test** : Changfeng, Dongying, P.R. China
 2018-04-09 to 2018-04-11
 (yyyy-mm-dd)
Shanghai, P.R. China
2023-07-24 (yyyy-mm-dd)

Part II Variant 2

1. Description of the test object

- 1.1. Trade mark : HIFLY
- 1.2. Tread pattern : HDM252
- 1.3. Plies
 Tread : 5 Steel
 Side wall : 1 Steel
- 1.4. Tyre-size designation : 10.00R20
- 1.5. Category of use : ~~Normal~~/snow/~~special~~
- 1.6. For the tyre belonging to the category of use "special use tyre" those which bears the inscription M+S or M.S or M&S : Not applicable
- 1.7. Structure : ~~Diagonal (bias-ply)~~/radial

Test report No.: 22-01677-CX-SHA-02
 Manufacturer: Shandong Changfeng Tyres Co., Ltd.
 Type: 10.00R20 149/146K M+S

- 1.8. Speed category symbol : Nominal: K, additional: ---
- 1.9. Load-capacity indexes
 Corresponding to nominal speed : Single: 149 , twinned: 146
 Corresponding to additional speed : Single: --- , twinned: ---
- 1.10. The inflation pressure for the dimension measurement and for the load/speed endurance test pressure : 930 kPa
- 1.11. Indication : Tubeless/tube type
- 1.12. Regroovable : Yes/no
- 1.13. Date of manufacture : 2423

2. Measurement according to Annex 6

- 2.1. Measuring rim : 7.5 X 20
- 2.2. Ambient room temperature : 25 °C
- 2.3. Inflation pressure : 930 kPa
- 2.4. Inflation pressure(readjusted before conditioning) : 930 kPa
- 2.5. Duration of conditioning of mounted tyre pre-measuring at ambient room temperature : More than 24 hours
- 2.6. Inflation pressure(readjusted after conditioning) : 930 kPa
- 2.7. Overall width at six equally spaced points :
 1. 277.2 mm
 2. 277.8 mm
 3. 277.5 mm
 4. 277.8 mm
 5. 277.9 mm
 6. 277.3 mm
 Max.: 277.9 mm
- 2.8. Circumference : 3305 mm
- 2.9. Outer diameter : 1052.0 mm
- 2.10. Limit value
 Overall width : ≤ 286 mm
 Outer diameter : $1036 \text{ mm} \leq OD \leq 1085 \text{ mm}$

3. Load/speed performance test according to Annex 7



Auto Service

Test report No.: 22-01677-CX-SHA-02
Manufacturer: Shandong Changfeng Tyres Co., Ltd.
Type: 10.00R20 149/146K M+S

- 3.1. Test machine : GX-YLSN-1114
- 3.2. Diameter of test drum : 1.7 m
- 3.3. Test rim : 7.5 X 20
- 3.4. Test-room temperature : 25 °C
- 3.5. Inflation pressure(readjusted before conditioning) : 930 kPa
- 3.6. Duration of conditioning of mounted tyre pre-testing at test-room temperature : More than 3 hours
- 3.7. Inflation pressure(readjusted after conditioning) : 930 kPa
- 3.8. Circumference after conditioning, before testing : ---
- 3.9. Outer diameter : ---
- 3.10. Load corresponding load index(100%) : 3250 kg
- 3.11. Test-drum speed : 56 km.h⁻¹

Step	Step-duration [h]	Total duration [h]	Testing load	
			[%]	[kg]
1	7	7	66	2145
2	16	23	84	2370
3	24	47	101	3282

- 3.12. Defect after load/speed test: : Without
- 3.13. Duration of conditioning after testing at test-room temperature : ---
- 3.14. Inflation pressure(readjusted after conditioning) : ---
- 3.15. Circumference after conditioning, after testing : ---
- 3.16. Outer diameter : ---
- 3.17. Difference outer diameter before and after Testing (max. 3.5 %) : ---
4. **Place and date of the test** : Zhijian, Qingdao, P.R. China
2023-06-22 to 2023-06-25
(yyyy-mm-dd)



Auto Service

Test report No.: 22-01677-CX-SHA-02
Manufacturer: Shandong Changfeng Tyres Co., Ltd.
Type: 10.00R20 149/146K M+S

5. Comments and remarks

- 5.1. Test results refer to measurements : Pass/ ~~Fail~~
- 5.2. Remarks concerning extension : The test data in Item 2.&3. for variant 1 roots in approval with No. E4*54R00/24*24105*10 and the relevant test report with No. 86-R54-2161/22-00 was issued by TÜV Rheinland Kraftfahrt GmbH, because the extension has no negative influence and the test results are remaining valid.

**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⁾ | : | FULLWAY; DAEWOO; HIFLY; MIGEER; ONYX;
SUNFULL; CHANGFENG; RUIFULAI; FESITE; Green
dragon; Agate; MIRAGE; SINOTYRE; OVATION; TORQUE;
GALLANT; TEMPO; CONVOY; BRIC; LEXANI; FUJITIRE;
UNIX; ZEETEX; OTANI; CRYSTAL; TUFFSTONE;
BRISTOL; NISON; SATOYA; NORMAKS; CACHLAND;
MARATHON; DERUIBO; INFINITY; ETERNITY;
DURABLE; WOSEN; ROADWING; SAYAN; TExxAN;
XBRI; Satoya; nison; PRIMEWAY; PETROMAX; SUNTRAC;
CRISTONE; <u>TOWNHALL</u> |
| 2. | Trade description(s) or Commercial name(s) ⁽²⁾ | : | TB901; DWA02; HH301; HM301; HO301; HF702; MG702;
ST011; VI-702; TQ702; GT702; TM702; CV702; JA-702;
LX702; FJ01; X-F01+; LZ-01+; OL700+; CS716; TT801; BT08;
NS501; HH306; HM306; HO306; HF706; MG706; VI-706;
TQ706; GT706; TM706; CV706; JA-706; LX706; CS706;
HH317; HM317; HO317; HF707; MG707; VI-707; TQ707;
GT707; TM707; CV707; JA-707; LX707; CS718; HH105;
HM105; HO105; HF708; MG708; VI-708; TQ708; GT708;
TM708; CV708; JA-708; LX708; CS368; LZ-02+; OL701+;
TF802; HF709; MG709; VI-709; TQ709; GT709; TM709;
CV709; JA-709; LX709; HH104; HM104; HO104; HF606;
MG606; VI-606; TQ606; GT606; TM606; CV606; JA-606;
LX606; CS720; HT-03+; OH900+; FJ02; TF803; NS702;
HF719; MG719; VI-719; TQ719; GT719; TM719; CV719; JA-
719; LX719; HH329; HM329; HO329; HF729; MG729; VI-729;
TQ729; GT729; TM729; CV729; JA-729; LX729; BT200;
HH308A; HM308A; HO308A; HF638; MG638; VI-638; TQ638;
GT638; TM638; CV638; JA-638; LX638; ST032; TZ-06+;
OR805+; FJ659; X-F06+; HH368; HM368; HO368; HF668;
MG668; VI-668; TQ668; GT668; TM668; CV668; JA-668;
LX668; CS990; X-F08+; TB755; HH307; HM307; HO307;
HF307; MG307; VI-307; TQ307; GT307; TM307; CV307; JA-
307; LX307; HH303; HM303; HO303; HF303; MG303; VI-303;
TQ303; GT303; TM303; CV303; JA-303; LX303; HH313;
HM313; HO313; HF313; MG313; VI-313; TQ313; GT313;
TM313; CV313; JA-313; LX313; HH599+; HM599+; HO599+;
HF599; MG599; VI-599; TQ599; GT599; TM599; CV599; JA-
599; LX599; HH311; HM311; HO311; HF701; MG701; VI-701;
TQ701; GT701; TM701; CV701; JA-701; LX701; SU-022; SD-
062; HH308Δ; HM308Δ; HO308Δ; NU702; CH8207;
GAM207; CH8607; GDM607; CH8707; GAO707; CH8807;
GAM807; CH8606; GSC606; CH8927; GDM927; CH8836;
GDC836; CH8866; GDC866; CH8703; GAM703; CH8303;
GDM303; CH8313; GDM313; CH8995+; GAC995+; CH8107;
GDM107; HF768; HH302; HM302; HO302; MG768; VI-768;
TQ768; CS820; NS612; CH8867; GDM867; M768; GD768;
HF505; HH505; HM505; HO505; MG505; VI-505; TQ505;
CH8505; GDC505; GD505; DRB588; DRB892; DRB862;
IXA777; EXA777; DR609; DR602; MG158; M1020; HF1020;
HH1020; MG1020; VI-1020; HO1020; WS118; SA695; TX222;
WS128; WS648; WS678; ECOMIX B1; TX965; PW01; PT501;
ST102; CT716; DRB882; DRB606; WS606; DRB559; DRB706;
WS668; PT539; PT506+; PT508+; PT624; DRB552; WS808;
DRB592; WS816; DRB585; WS836; HF900; DRB596; WS729;
DRB307; WS307; DRB505; WS505; CS520; CT520; CS504;
CT504; CT820; HF555; MG555; VI-555; HH555; HO555;
TQ555; CH8555; DRB555; WS555; HF626; MG626; VI-626;
HH626; HO626; TQ626; CH8626; DRB626; WS626; HF324;
MG324; VI-324; HH324; HO324; TQ324; CH8423; DRB324;
WS324; HF702N; MG702N; VI-702N; HH301N; HO301N;
TQ702N; CH8207N; DRB862N; WS118N; AG915; AG925;
HF616; MG616; VI-616; HH616; HO616; TQ616; CH8616;
DRB616; WS616; HF666; MG666; VI-666; HH666; HO666;
TQ666; CH8666; DRB666; WS666; AT777; AT999; HO866XL;
SU-281; GL901; HF901es; HH901es; MG901es; VI-901es;
HO901es; TQ901es; DRB801es; CF901es; WS901es; ND616;
ND626; SU-142BM; DRB901es; CH901es; CH-901es; <u>GL901es;</u>
<u>DW901; DW901es; TH901; TH901es; GL606; DW606; TH606;</u> |

(1) Strike out what does not apply.

(2) Modified points are underlined for extension.

GL708; DW708; TH708; GL702; DW702; TH702; GL702N; DW702N; TH702N; GL768; DW768; TH768; WS768; GL706; DW706; TH706; GL307; DW307; TH307; GL638; DW638; TH638; GL701; DW701; TH701; GL313; DW313; TH313; GL707; DW707; TH707; GL729; DW729; TH729; GL900; DW900; TH900; WS900; DRB900; GL505; DW505; TH505; GL616; DW616; TH616; GL626; DW626; TH626; HH399; HF399; CH8993; MG399; HO399; VI-399; TQ399; WS399; DRB399; GL399; DW399; TH399; HAM517; FAM517; SAM517; 767CAR; NAM517; EAM517; GAM517; DAM517; TAM517; HDM252; FDM252; SDM252; 768CDM; NDM252; EDM252; GDM252; DDM252; TDM252

- | | | | |
|--------|--|---|---|
| 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 | : | 10.00R20 |
| 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 | | |
| 5.5.1. | corresponding to nominal speed | : | single: 149, twinned (dual): 146 |
| 5.5.1. | corresponding to additional speed | : | single: ---, twinned (dual): --- |
| 6. | Overall dimensions | : | Calculated /Annex 5 ⁽¹⁾ |
| | overall section width | : | 276(4steel)/ <u>278(5steel)</u> |
| | outer diameter | : | 1053(4steel)/ <u>1052(5steel)</u> |
| 7. | Factor 'x' | : | |
| 8. | Ply-rating number for diagonal (bias ply) tyres | : | not applicable |
| 9. | Rims on which the tyre can be mounted | : | 7.5 |
| 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.

(1) Strike out what does not apply.

(2) Modified points are underlined for extension.

MANUFACTURER'S STAMP



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.