



**COMMUNICATION**

Concerning <sup>(1)</sup>:

- 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- approval withdrawn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 <sup>(2)</sup>: E4\*117R02/16\*7585\*05**

**Suffix(es) <sup>(6)</sup>: 02S2WR2**

- |        |  |   |   |
|--------|--|---|---|
| 1.     | Manufacturer's name and address                                  | : | Shandong Changfeng Tyres Co., Ltd.<br><u>High-tech Development Zone, Guangrao County,<br/>Dongying City, 257335 Shandong Province,<br/>China</u>  |
| 2.     | If applicable, name and address of manufacturer's representative | : | Not applicable  |
| 3.     | "Tyre class" of the type of tyre                                 | : | <del>Class C1 / Class C2</del> / Class C3   |
| 4.     | "Category of use" of the type of tyre                            | : | <del>normal / snow / special</del>  |
| 4.1.   | Tyre for use in severe snow conditions                           | : | yes/no <sup>(1)</sup>   |
| 4.1.1. | Ice grip tyre  | : | yes/no <sup>(1)</sup>   |
| 4.2.   | Traction tyre  | : | yes/no <sup>(1)</sup>   |
| 5.     | Tyre structure   | : | <del>diagonal (bias ply)</del> / radial / run flat tyre   |
| 6.     | Type of tyre designation   | : |   |
| 6.1.   | Brand name(s)/trademark(s) of the type of tyre                   | : | HIFLY; OVATION; ECOVISION; SUNFULL;<br>CACHLAND; ONYX; MIRAGE; CHANGFENG;<br>RUIFULAI; FESITE; Green dragon; Agate;<br>TORQUE; CRYSTAL; SATOYA; GALLANT ;<br>Satoya; ETERNITY; SYRON; ROADWING;<br>TOWNHALL; WOSEN; DERUIBO; COFO;<br><u>MIGEER</u> |



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- 6.2. Trade description(s)/commercial name(s) of the type of tyre : HTL311; ETL311; STL311; 171CTL; NTL311; MTL311; FTL311; ST-080; GTC311; ETY622; K-TIR LONGLIFE; DTL311; TTL311; GTL311
7. Technical service and, where applicable, test laboratory approved for purposes of approval or of verification of conformity tests : TÜV NORD Mobilität GmbH & Co. KG  
IFM - Institut für Fahrzeugtechnik und Mobilität  
Schönscheidtstr. 28, D-45307 Essen
8. Performance(s) approved : sound level at (~~stage 1~~/stage 2)<sup>(1)</sup>, wet adhesion level, rolling resistance level (~~stage 1~~/stage 2)<sup>(1)</sup>
- 8.1. Sound level of the representative tyre size, see paragraph 2.7. of this Regulation, as per item 7. of the test report in Appendix 1 to Annex 3: 73 dB(A) at reference speed of 70 km/h ~~or 80 km/h~~<sup>(1)</sup>.
- 8.2. Wet adhesion level of the representative tyre size, see paragraph 2.7. of this Regulation, as per the test report examples shown in the appendix to Annex 5: 1.02 (G) using the ~~vehicle~~ ~~or-trailer~~ method<sup>(1)</sup>.
- 8.3. Rolling resistance level of the representative tyre size, see paragraph 2.7. of this Regulation, as per item 7. of the test report in Appendix 1 to Annex 6: 4.67 N/kN.
- 8.4. 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<sup>(5)</sup> to Annex 7: --- (Snow grip index) using the ~~brake on snow method~~<sup>(1)</sup>, ~~spin traction method~~<sup>(1)</sup> or acceleration method<sup>(1)</sup>.
- 8.4.1. 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: N/A (ice grip index) using the ~~brake on ice method~~<sup>(1)</sup>.
9. Number of report issued by that service : CS117-A0-2015-03266  
CS117-D0-2016-02103  
CS117-F0-2025-04235
10. Date of report issued by that service : November 08, 2015  
July 18, 2016  
June 05, 2025
11. Reason(s) of extension (if applicable) : Addition of new tyre sizes, which doesn't affect the worst case selection;  
Addition of brand names and trade descriptions;  
Upgrade of regulation supplement number;  
Upgrade of approval number;  
Modification of the manufacturer's address;  
The previous test results are still valid.
12. Any remarks : Not applicable



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13. Place : Zoetermeer  
14. Date : 20 July 2025  
15. Signature :



16. Annexed to this communication are:
- 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<sup>(6)</sup>.
- 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.

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<sup>(1)</sup> Strike out what does not apply.

<sup>(2)</sup> According to Schedule 4 to Revision 3 of the 1958 Agreement.

<sup>(6)</sup> In the case of tyre 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.

<sup>(5)</sup> Appendix 2 for C1 and C2 tyres.  
Appendix 3 for C3 tyres.

**RELATING TO ECE TYPE-APPROVAL FOR A TYPE OF TYRE WITH REGARD TO ROLLING SOUND EMISSIONS AND TO ADHESION ON WET SURFACES AND ROLLING RESISTANCE (ECE Regulation No. 117. 02)**

**1. GENERAL**

- 1.1 The performance characteristics to be assessed for the tyre type : rolling sound level / adhesion performance level on wet surfaces / rolling resistance
- 1.2 Manufacturer's name : Shandong Changfeng Tyres Co., Ltd.
- 1.3 Name and address of applicant : Shandong Changfeng Tyres Co., Ltd.  
High-tech Development Zone, Guangrao County, Dongying City, 257335 Shandong Province, China
- 1.4 Address(es) of manufacturing plant(s) : the same as the applicant
- 1.5 Brand name(s), Trade description(s) or Trade mark(s) to be used for particular tyre type-approval requested : HIFLY; OVATION; ECOVISION; SUNFULL; CACHLAND; ONYX; MIRAGE; CHANGFENG; RUIFULAI; FESITE; Green dragon; Agate; TORQUE; CRYSTAL; SATOYA; GALLANT ; Satoya; ETERNITY; SYRON; ROADWING; TOWNHALL; WOSEN; DERUIBO; COFO; MIGEER (Brade names)  
HTL311; ETL311; STL311; 171CTL; NTL311; MTL311; FTL311; ST-080; GTC311; ETY622; K-TIR LONGLIFE; DTL311; TTL311; GTL311 (tread pattern names)

**2 TYRE**

- 2.1 Tyre classification (class C1, C2, C3) : ~~Class C1 / Class C2 / Class C3~~
- 2.2 Section width range for class C1 tyres : see attached list of tyre size
- 2.3 Tyre structure : ~~diagonal / bias belted / radial~~
- 2.3.1 For Class C1 tyres, state weather :
- 2.3.1.1 Whether tyre for use in severe snow conditions or not : not applicable
- 2.3.1.2 Whether ice grip tyre or not : not applicable
- 2.3.2 For Class C2 and C3 tyres, state whether:
- 2.3.2.1 Whether tyre for use in severe snow conditions or not : ~~Yes/No~~
- 2.3.2.2 Whether traction tyre or not : ~~Yes/No~~
- 2.4 Category of use (normal, snow, special) : ~~normal / snow / snow tyre for use in severe snow conditions / special~~
- 2.5 A list of tyre designations covered by this application : see attached list of tyre size
- 2.6 Details of major features, with respect to the effects on tyre performance (i.e. rolling emission level or adhesion on wet surfaces, respectively) of the tread pat-tern(s) to be used on the designated range of tyre sizes.  
This may be by 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 attached drawing of tread pattern

MANUFACTURER'S STAMP



THIS APPLICATION IS ACCOMPANIED BY:

- List of tyre size
- Drawing of tread pattern
- The test report

Signature:

朱立新

.....  
Name: ...Zhu lixin.....

**List of tyre size**

- Brand name(s) or Trade mark(s)** : HIFLY; OVATION; ECOVISION; SUNFULL; CACHLAND; ONYX; MIRAGE; CHANGFENG; RUIFULAI; FESITE; Green dragon; Agate; TORQUE; CRYSTAL; SATOYA; GALLANT ; Satoya; ETERNITY; SYRON; ROADWING; TOWNHALL; WOSEN; DERUIBO; COFO; MIGEER
- Tread pattern** : HTL311; ETL311; STL311; 171CTL; NTL311; MTL311; FTL311; ST-080; GTC311; ETY622; K-TIR LONGLIFE; DTL311; TTL311; GTL311

Tyre size	Approval No.	Limit value for stage2 dB(A)	Wet grip index(G)	Rolling resistance maximum values for stage2 (N/kN)	Indication	Marking
385/55R22.5 160K(158L)	E4-54R-0033756	73	0.65	6.5	<del>Reinforced</del> / <del>standard</del>	M+S
385/65R22.5 160K(158L)	E4-54R-0034024					
425/65R22.5 165K	E4-54R-0034025					
445/65R22.5 169K	E4-54R-0034026					
<u>385/55R22.5 164K</u>	<u>E4-54R-0057747</u>					
<u>385/65R22.5 164K</u>	<u>E4-54R-0057748</u>					

Test size for tyre noise:

**Test Size** : **445/65R22.5 169K**  
**Because of** : **Largest section width**  
**~~Smallest aspect ratio~~**  
**Largest rim diameter**

Test size for wet grip:

**Test Size** : **385/55R22.5 160K(158L)**  
**Because of** : **Any tyre size that meets ten percent (10%) or more above the minimum required wet grip value can represent the whole tyre size range of the tread pattern type.**  
**Calculated limit value** :  **$0.65 \times 1.1 = 0.715$**

Test size for rolling resistance:

**Test Size** : **385/55R22.5 160K(158L)**  
**Because of** : **Smallest Load Index**  
**Calculated limit value** : **6.5**

Test size for snow performance:

**Test Size** : **-----**  
**Because of** : **smallest section width**  
**Calculated limit value** :