

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- approval withdrawn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*54R00/23*46849*00

Manufacturer's name and adress	: ZODO TIRE Co., LIMITED The South of Yalujiang Road Wenzhuang Village, Qinghe Agency of Cao County Heze City, Shandong Province 274400 China(PRC)
Tyre type designation ⁽²⁾	:
Brand name(s)/trademark(s)	: CONSTANCY; ILINK; LUXXAN; RHINO; ARIVO; GRENLANDER; T TYRE; CRYSTAL; ROCKBLADE; FRONWAY; SAILWIN; XBRI; ROADMARCH; KANGS; ZMAX; XCENTWAY
Trade description (s)/Commercial	
name(s)/	: L-MAX9; LY399; VANPLUS 09; VANTOUR 09; TRANSITO ARZ6-X; INSPIRER L4; RT28; TWENTY; ROCK 838C; PRIMEVAN 9; MAXCELL 09; Perseverant 902; LY288; L-POWER28; DURAMAX 28; RACINGMAX 28; TRANSITO ARZ6-M; CITYMAX; INSPIRER L6; GTR501; Strength; ROCK 818; PRIMEVAN 28; Perseverant 901
If applicable, name and address of the manufacturer's representative	: Not applicable
Summarized description:	
	Tyre type designation ⁽²⁾ Brand name(s)/trademark(s) Trade description (s)/Commercial name(s)/ If applicable, name and address of the manufacturer's representative

P.O. Box 777 2700 AT Zoetermeer The Netherlands Tel. + 31 79 345 83 02 E-mail typeapproval@rdw.nl www.rdw.nl Type-approval Department



Tyres-commercial-vehicle R54-00 v4.00

Page 1 of 3

Approval number: E4*54R00/23*46849*00

4.1.	Size of tyre	: 215/70R16C
4.2.	Category of use	: normal/ snow/special (1)
4.3.	Structure	: diagonal (bias-ply)/radial ⁽¹⁾
4.4.	Tyre class	$: C2/C3^{(1)}$
4.5.	Speed category symbol:	
4.5.1.	nominal	: R
4.5.2.	additional (if applicable)	:
4.6.	Load-capacity indices:	
4.6.1.	Corresponding to nominal speed: – single – twinned (dual)	: 108 : 106
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	-
6.	Date of report issued by that service	: August 05, 2020
7.	Number of report issued by that service	: CN20080023
8.	Reason(s) for extension (if applicable)	:
9.	Any remarks	:



Approval number: E4*54R00/23*46849*00

10. Place

: Zoetermeer

:

11. Date

[:] 21 August 2020

12. Signature



- 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.



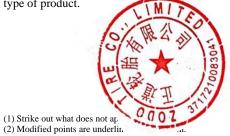
TECHNICAL DOCUMENTATION



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

1.	Tyre type designation	:	215/70R16C 108/106R
1.1	Trademark	:	CONSTANCY; ILINK; LUXXAN; RHINO; ARIVO; GRENLANDER; T TYRE;CRYSTAL;ROCKBLADE; FRONWAY; SAILWIN; XBRI; ROADMARCH;KANGS; ZMAX;XCENTWAY
1.2	Tread pattern	:	L-MAX9; LY399; VANPLUS 09; VANTOUR 09; TRANSITO ARZ6-X; INSPIRER L4; RT28; TWENTY; ROCK 838C; PRIMEVAN 9; MAXCELL 09; Perseverant 902; LY288;L- POWER28;DURAMAX 28; RACINGMAX 28;TRANSITO ARZ6-M;CITYMAX; INSPIRER L6;GTR501;Strength;ROCK 818; PRIMEVAN 28;Perseverant 901
2.	Manufacturer's name and address	:	ZODO TIRE Co., LIMITED The South of Yalujiang Road, Wenzhuang Village Qinghe Agency of Cao County Heze City, Shandong Province 274400 China(PRC)
3.	If applicable, name and address of manufacturer's representative	:	not applicable
4.	Summarised description,		
4.1.	Tyre size designation	:	215/70R16C
4.2.	Category of use	:	normal /special/snow ⁽¹⁾
4.3.	Structure	:	diagonal (bias ply) / radial ⁽¹⁾
4.4.	Speed category symbol	:	
4.4.1.	Nominal	:	R
4.4.2.	Additional (if applicable)	:	not applicable
4.5.	Load capacity indices		
4.5.1.	corresponding to nominal speed	:	single: 108, twinned (dual):106
4.5.2.	corresponding to additional speed	:	single:, twinned (dual):
5.	Factor 'x'	:	0.7
6.	Ply-rating number for diagonal (bias-ply) tyres	:	Not applicable
7.	Rims on which the tyre can be mounted	:	6 1/2J
8.	Measuring rim and test rim	:	see attached test report
9.	Tyre class	:	C2 / C3 ⁽¹⁾
10.	State whether the tyre is	:	tubeless / tube type ⁽¹⁾
11.	Traction tyre	:	$\frac{1}{2}$ Yes-/ no(see the tread pattern detail in drawing) ⁽¹⁾
12.	State if special use tyre	:	n.a.
	Professional Off-Road	:	Yes / no⁽¹⁾
	Tread depth	:	n.a.
	Void to fill ratio	:	n.a.
13.	Inflation pressure and index for measuring and testing	:	see attached test report
14.	Submitted for approval on (date)	:	2020/06/29

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.



Pen Hailang



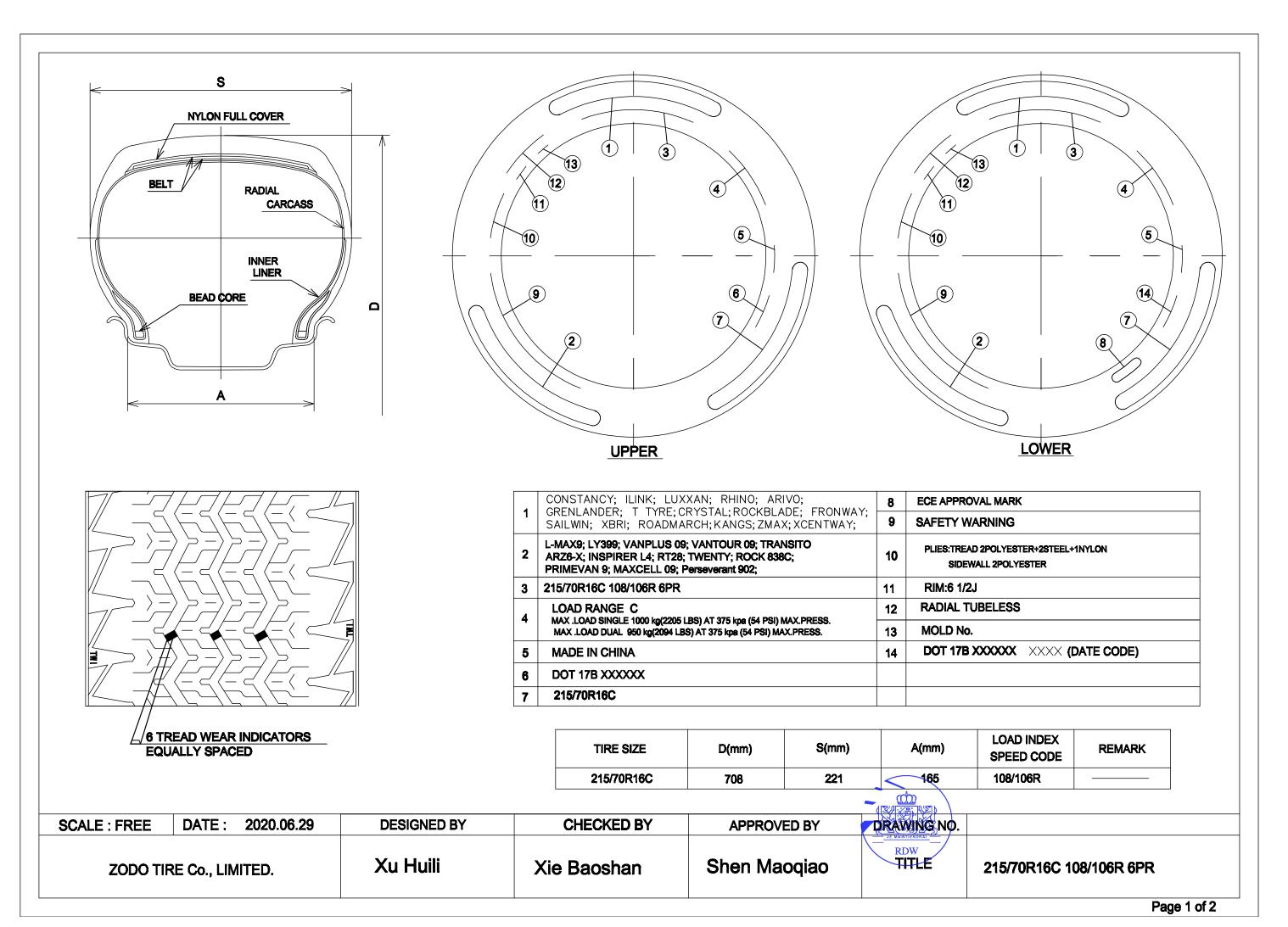
DA CN20080023

MANUFACTURER'S STAMP	Signature :
	Name: Ren Hailong

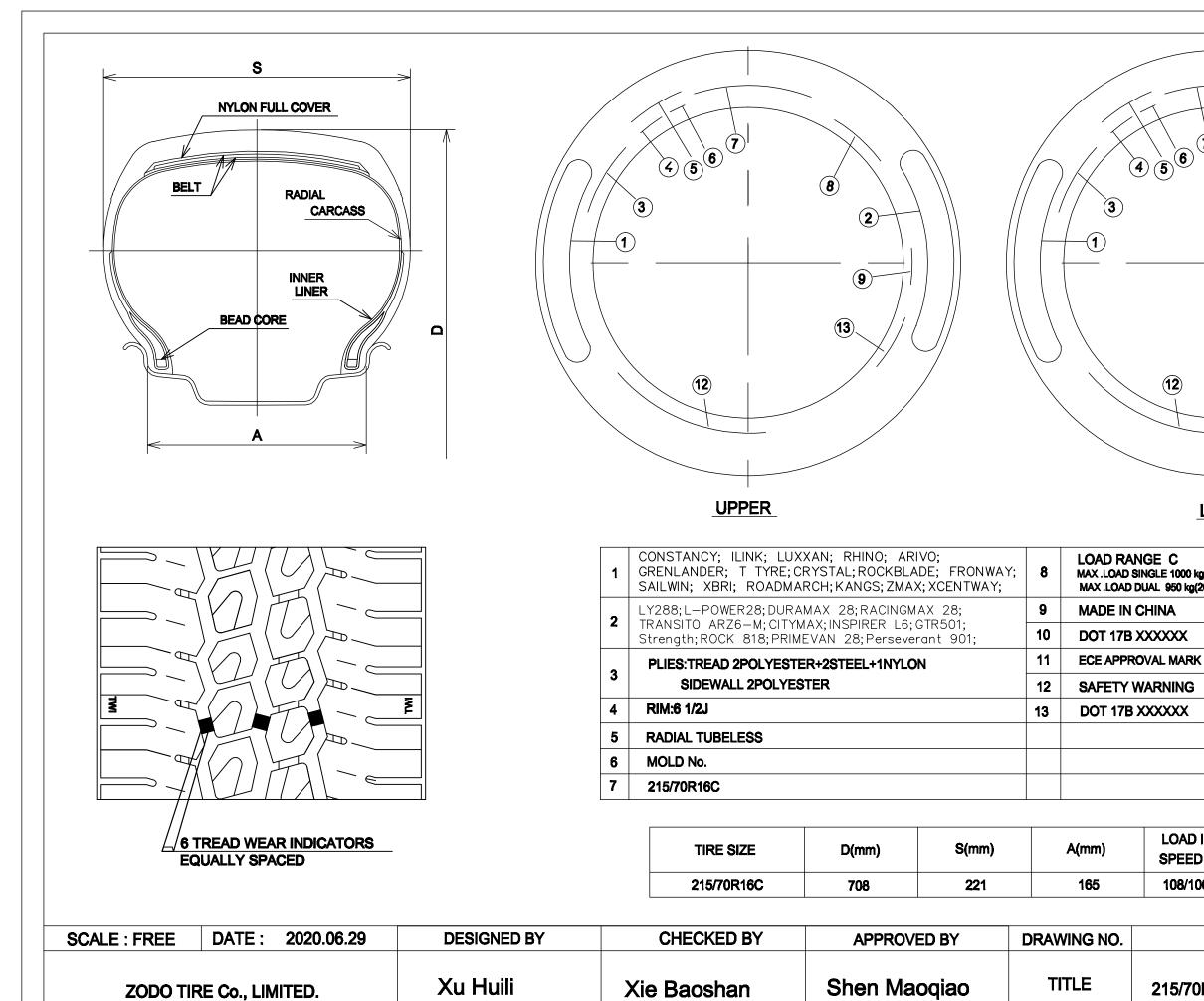
THIS APPLICATION IS ACCOMPANIED BY:

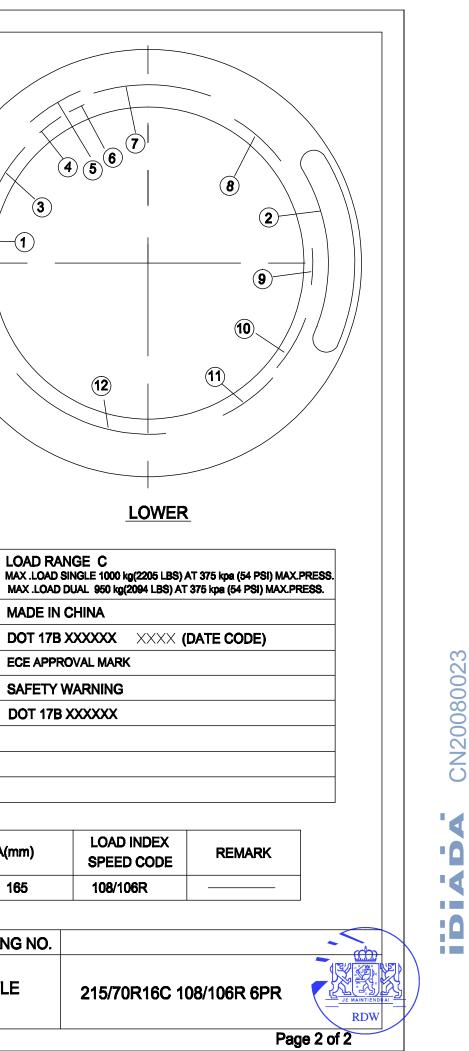
- Application form, relating to ECE approval for pneumatic tyre pursuant Regulation No.54
- A drawing of the tyre's side wall, tread and dimensioned cross section.
- The test report.





IDIADA CN20080023







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Page 1/8

REPORT No. CN20080023

APPROVAL OF PNEUMATIC TYRES FOR COMMERCIAL VEHICLES AND THEIR TRAILERS REFERRING TO UN REGULATION NO. 54R00/23

Approval number	:	E4*54R00/23*46849*00
Applicant	:	ZODO TIRE Co., LIMITED
Manufacturer	:	ZODO TIRE Co., LIMITED The South of Yalujiang Road Wenzhuang Village, Qinghe Agency of Cao County Heze City, Shandong Province 274400 China(PRC)
Brand-name(s)/trademark(s)	:	CONSTANCY; ILINK; LUXXAN; RHINO; ARIVO; GRENLANDER; T TYRE; CRYSTAL; ROCKBLADE; FRONWAY; SAILWIN; XBRI; ROADMARCH; KANGS; ZMAX; XCENTWAY
Trade description(s)/Commercial name(s)	:	L-MAX9; LY399; VANPLUS 09; VANTOUR 09; TRANSITO ARZ6-X; INSPIRER L4; RT28; TWENTY; ROCK 838C; PRIMEVAN 9; MAXCELL 09; Perseverant 902; LY288; L-POWER28; DURAMAX 28; RACINGMAX 28; TRANSITO ARZ6-M; CITYMAX; INSPIRER L6; GTR501; Strength; ROCK 818; PRIMEVAN 28; Perseverant 901
Tyre size designation	:	215/70R16C
Place and date of test report issue	:	L'Albornar, Santa Oliva (Tarragona) 05/08/2020

Tested pneumatic tyre **FULFILS** with the specifications regarding to the type approval of approval of pneumatic tyre referring to the Supplement 23 to the original version of the UN Regulation NO. 54 as specified in the annex of this report.

Performed by:

俞照才

Zhaocai(frank) Yu TEST ENGINEER

Revised by:

Josep Masip Gomez DEPARTMENT MANAGER

* THE PRESENTED RESULTS REFER ONLY TO THE TESTED SAMPLE

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ANNEX TO THE REPORT

1. **TECHNICAL DESCRIPTION OF THE PNEUMATIC TYRE:**

Brand-name(s)/trademark(s)	:	ROCKBLADE
Trade description(s)/Commercial name(s)	:	RACINGMAX 28
Tyre-size designation	:	215/70R16C
Category of use	:	normal /-snow / special
Structure	:	diagonal / bias-belted / radial
Speed category index	:	nominal : R additional :
Load-capacity index	:	nominal: single : 108 twinned : 106
		additional: single : twinned :
X of the manufacturer /	:	0.7
Tyre cross-section	:	See technical documentation
2. TYRE MARKING		
2.1. Compulsory Marking		
Approval mark		
Approval mark Height a > 12 mm	:	Yes
Tyre definition marking height		
Tyre size $b > 6 mm$:	Yes
Load and speed index $b > 6 mm$:	Yes



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Page 3/8

2.2. Additional Marking

"M+S" / "M.S" / "M&S"		:	N.A.		
"TUBELESS"		:	Yes		
Index of inflation pressure		:	375 kPa		
Ply rating		:	N.A.		
"ET" / "ML" / "MPT"		:	N.A.		
"REGROOVABLE"		:	N.A.		
Date of manufacture		:	1920		
Height of these marking $c > 4 mm$:	YES		
3. TEST RESULTS.					
Sample Reception date	:	29/05	5/2020		
Place and test dates	:		5/2020-01/06/202 O Testing Center		hina)
Sample Id.	:	CN2	0080023		
Measure rim code	:	6.5 ×	16		
Test rim Code	:	6.5 ×	16		
3.1. <u>Pneumatic tyre measurement</u>					
Mounting pressure in measuring rim				:	P(1m) = 3.75 bar
Conditioning temperature				:	Temp. = 26 °C
Adjusted pressure before conditioning				:	P(2m) = 3.75 bar
Readjusted pressure after 24 hours				:	P(3m) = 3.75 bar

RDW





3.1.1. Tyre width measurement:

Measures of overall width at six equally-spaced points:

Point	Overall width (mm)
1	219.5
2	219.8
3	219.7
4	219.6
5	219.8
6	219.9
Point	Maximum width (mm)
6	219.9

3.1.2. Tyre section width calculation:

S = 221 (mm) given by Annex 5/Calculation

Or

 $S = S_1 + K(A-A1)$

Nominal section width (mm)	215
K coefficient	0.4
Measuring rim Width (mm)	165.1
X of the manufacturer	0.70
Theoretical rim Width (mm)	150.5

Maximum measured width (mm)	Section width (mm)	Difference (%)
$S_{M} = 219.9$	S = 221	-0.50

The overall width of a tyre may be less than the section or exceed the value by the following percentages: 8% structure diagonal; 4 % structure radial. For section with exceed 305mm shall not exceed the value by the following percentages: 4% structure diagonal; 2 % structure radial of nominal aspect higher than 60.

FULFILS / DOES NOT FULFIL

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3.1.3. Outer diameter measurement

Maximum circumference (mm)	Outer diameter (mm) $Di \text{ sect} = \frac{L}{\pi}$
2222	707.3

3.1.4. Tyre outer diameter calculation:

D = d + 2H

Conventional number of the nominal rim(mm)	d = 406 mm
Nominal section width (mm)	$S_1 = 215 \text{ mm}$
Nominal aspect ratio	70
Factor a	0.97
Factor b	Radial:1.04 (Normal), 1.06(Special)
	Diagonal:1.08 (Normal), 1.09(Special)
Nominal section height (mm)	H = 151 mm

Dmin	Outer diameter D (measured)	Dmax
$D_{min} = d + 2(H \times a)$		$D_{max} = d + 2(H \times b)$
698 mm	707.3 mm	720 mm
Dmin < D < Dmax		

FULFILS / DOES NOT FULFIL

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* THE PRESENTED RESULTS REFER ONLY TO THE TESTED SAMPLE



3.2 Load/speed performance test

3.2.1 For tyres with speed category symbol Q and above:

Test Conditions

Speed category	R
Load capacity index	108
Maximum velocity (km/h)	170
Test axle load (kg)	1000
Maximum speed during the test (km/h)	170
Load of axle during the test (kg)	900
Inflation tyre pressure before conditioning(kpa)	375
Conditioning time wheel-tyre assembly(hour)	3
Readjusted tyre pressure after conditioning (kpa)	375
Test wheel diameter (m)	1.7
Temperature (°C)	28

Test cycle

Step	Duration (min)	Speed (km/h)
1	10	0-150
2	10	150
3	10	160
4	30	170
TOTAL	60	



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3.2.2 Tyres with speed category symbol P and below:

Test Conditions

Speed category	N.A.
Load capacity index	N.A.
Maximum velocity (km/h)	N.A.
Test drum speed during the test (km/h)	N.A.
Load of axle during the test (kg) (100%)	N.A.
Inflation tyre pressure before conditioning(kpa)	N.A.
Conditioning time wheel-tyre assembly(hour)	N.A.
Readjusted tyre pressure after conditioning (kpa)	N.A.
Test wheel diameter (m)	N.A.
Temperature (°C)	N.A.

Test cycle

Step	Duration (h)	Load	(kg)
1	N.A.	N.A.	N.A.
2	N.A.	N.A.	N.A.
3	N.A.	N.A.	N.A.
TOTAL	N.A.		

3.2.3 Tyre measurement

Outer diameter measurement at the start of test	707.3 mm	
Outer diameter measurement at the end of test	709.2 mm	
Percentage of the change in outer diameter measurement (%)	0.27	



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3.3. Test results

3.3.1. The outer diameter of the tyre, measured six hours after the load/speed endurance test, must not differ by more than \pm 3.5% from the outer diameter as measured before the test.

FULFILS / DOES NOT FULFIL

3.3.2. Once passed the load/speed endurance test, the tyre must not exhibit any tread separation, ply separation, cord separation, chunking or broken cords.

FULFILS / DOES NOT FULFIL

Test Place : ZODO Testing Center (Heze, China) Test Date : 29/05/2020-01/06/2020

CN20080023 MR, Zhaocai(frank) Yu TEST ENGINEER **RDW**

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