

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- ~~approval withdrawn~~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*52093*00

1. Manufacturer's name and address : Wanli Tire Corporation Limited
3 Wanli Road Aotou Town, Conghua 510940
Guangzhou City, Guangdong Province
China (PRC)
2. Tyre type designation ⁽²⁾ :
- 2.1. Brand name(s)/trademark(s) : AUFINE; MAXELL
- 2.2. Trade description (s)/Commercial name(s)/ : SMART ATR9; MASTER MAS800; SUPER LT1; SMART AEL5; MASTER MAS300; SUPER HA1
3. If applicable, name and address of the manufacturer's representative : Not applicable
4. Summarized description:
 - 4.1. Tyre-size designation : 385/55R22.5
 - 4.2. Category of use : ~~normal~~/snow/special ⁽¹⁾
 - 4.3. Structure : ~~diagonal (bias-ply)~~/radial ⁽¹⁾
 - 4.4. Tyre class : ~~E2~~/C3 ⁽¹⁾



Approval number: E4*54R00/25*52093*00

- 4.5. Speed category symbol:
- 4.5.1. nominal : J
- 4.5.2. additional (if applicable) : K
- 4.6. Load-capacity indices:
- 4.6.1. Corresponding to nominal speed:
- single : 164
 - twinned (dual) : ---
- 4.6.2. Corresponding to additional speed:
- single : 162
 - twinned (dual) : ---
5. Technical service and, where applicable, test laboratory approved for purposes of approval or of verification of conformity : IDIADA Automotive Technology, S.A.
L'Albornar, P.O. Box 20
43710 Santa Oliva (Tarragona)
Spain
6. Date of report issued by that service : January 31, 2023
7. Number of report issued by that service : CN23010757
8. Reason(s) for extension (if applicable) : Not applicable
9. Any remarks : ---
10. Place : Zoetermeer
11. Date : 06 February 2023
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.

Statement manufacturer and authorization regarding application

This statement must only be sent with new "00" applications. This applies to both the statements that the application has not been submitted to another authority and the authorization of the applicant. If the authorized party is changed in the meantime (i.e. in case of an extension or correction request), this declaration must be filled in again.

1 **EC & UNECE type-approval number** : E4*54R00/25*52093*00

2 **Manufacturer/** **Manufacturer's representative** ⁽¹⁾

3 Company name : Wanli Tire Corporation Limited
4 Name authorized person : Liangqing Ye
5 Job title : Homologation Manager
6 E-mail address : yeliangqing@wanlitire-hf.com
7 Address manufacturer : 3 Wanli Road Aotou Town, Conghua 510940 Guangzhou City, Guangdong Province
China (PRC)
8 Country : China(PRC)

9 **Statement**


10 Hereby : Liangqing Ye ,
11 declares on behalf of
the manufacturer : Wanli Tire Corporation Limited ,
12 for the application with
type-approval number : E4*54R00/25*52093*00 ,
13 the following:
14 a) the manufacturer has not applied for an EC & UNECE type-approval for the same type to any other approval
authority, and no other approval authority granted the manufacturer such an approval;
15 b) no approval authority has refused to grant type-approval of that type;
16 c) no approval authority has withdrawn type-approval of that type;
17 d) the manufacturer has not revoked an application for a type-approval of that type.

18 **Authorization regarding handling of this application (if applicable)** ⁽²⁾

19 Company name : IDIADA Automotive Technology, S.A.
20 E-mail address : QualityHomologations@idiada.com
21 Address : PO Box 20 Santa Oliva, l'Albornar 43710, Tarragona
22 Country : Spain

23 **Authorization**

24 By means of this
declaration, I : Liangqing Ye ,
25 on behalf of : Wanli Tire Corporation Limited ,
26 authorizes : IDIADA Automotive Technology, S.A. ,
27 to respectively apply for a type-approval with type-approval number:
E4*54R00/25*52093*00 ,
28 handle all communication concerning this application and receive the type-approval certificate.

29 Date	Place	Name:
30 30/01/2023	Hefei, China	Wanli Tire Corporation Limited
31	On their behalf, signature :	
32	Name : Liangqing Ye 	

⁽¹⁾ Mark the specific checkbox.

⁽²⁾ This authorization only concerns the application procedure and all activities that are directly or indirectly related to this procedure. If and insofar as other procedures, including the lodging of objections, are deemed necessary, a new authorization must be submitted in respect of that specific procedure.

TECHNICAL DOCUMENTATION

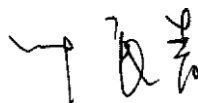
**APPLICATION FOR APPROVAL OF A TYPE OF PNEUMATIC TYRE FOR PRIVATE CARS
ACCORDING TO ECE REGULATION NO. 54, 00 SERIES OF AMENDMENTS**

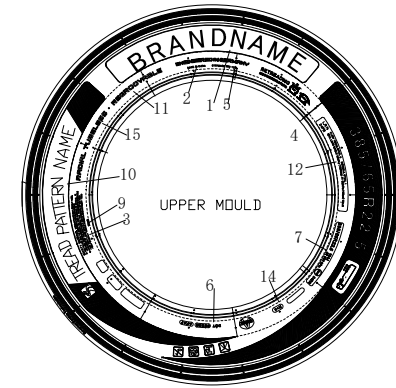
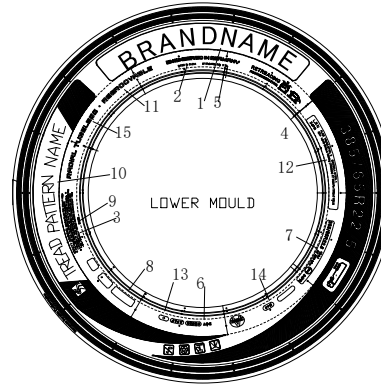
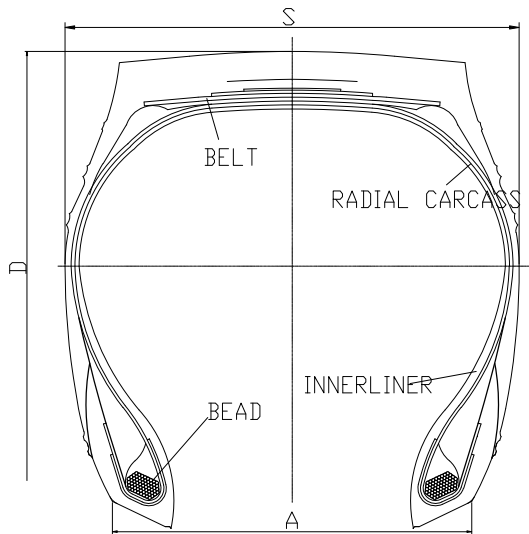
APPROVAL Grant / ~~Extension~~ / ~~Correction~~

1. Trade name or trade mark on the tyre : AUFINE; MAXELL
2. Tyre type designation by the manufacturer : SMART ATR9; MASTER MAS800; SUPER LT1;
SMART AEL5; MASTER MAS300; SUPER HA1
3. Manufacturer's name and address : Wanli Tire Corporation Limited
3 Wanli Road, Aotou Town, Conghua 510940 Guangzhou
City, Guangdong Province China (PRC)
4. Name and address of manufacturer's representative : not applicable
5. Summarized description
- 5.1 Size designation : 385/55R22.5
- 5.2 Category of use : ~~normal~~ / ~~snow~~ / ~~special use~~
- 5.3 Structure : ~~diagonal (bias ply)~~ / radial
- 5.4 Tyre Class : ~~E2~~/C3
- 5.5 Speed category symbol
- 5.5.1 nominal : J
- 5.5.2 additional(if applicable) : K
- 5.6 Load capacity indices
- 5.6.1 corresponding to nominal speed : single: 164 twined(dual): ---
- 5.6.2 corresponding to additional speed : single: 162 twined(dual): ---
6. Overall dimensions : ~~Annex 5~~/ calculated
- Section width/ Measured max overall SW : 381.3
- Outer diameter/ Measured max outer diameter : 992.8
7. Factor "X" : 0.80
8. Ply-rating number for diagonal (bias ply) tyres : not applicable
9. Rims on which the tyre can be mounted : 11.75;12.25
10. Measuring rim and test rim : 12.25
11. State whether the tyre is : tubeless/~~tube type~~
12. inflation pressure and index for measuring and testing : see attached test report
13. Submitted for approval on (date) : Jan.30, 2023

;

Signature:





TREAD PATTERNS

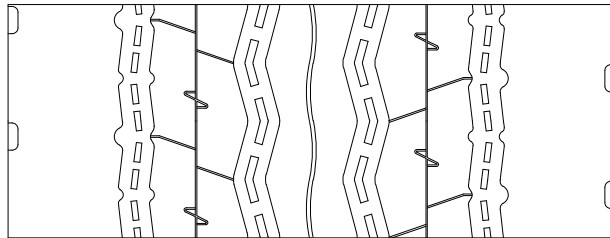


TABLE 1

BRAND NAME	TREAD PATTERN NAME
AUFINE	SMART ATR9; MASTER MAS800
MAXELL	SUPER LT1

15	RADIAL TUBELESS	
14	M+S	
13	**** (DATE CODE)	
12	L. R. N PLIES: TREAD STEEL 5 SIDEWALL STEEL 1 24PR MAX. LOAD SINGLE 5000kg(11000lbs) AT 950kPa(138psi) COLD	
11	REGROOVABLE	
10	TREAD PATTERN NAME (SEE THE TABLE 1 ON THE LEFT)	
9	**** (MOLD NUMBER)	
8	(E4) XXXXXX S2WR2 XXXXXX	
7	385/55R22.5 AT 164J AT 950kPa (162K) 24PR	
6	DOT ***** **	
5	STANDARD RIM 12.25	
4	385/55R22.5	
3	SAFETY WARNING	
2	MADE IN CHINA	
1	BRAND NAME (SEE THE TABLE 1 ON THE LEFT)	
	LOWER MOULD	UPPER MOULD

385/55R22.5	164(162)	J(K)	TL	996	386	311.15
TYRE SIZE	LOAD INDEX	SPEED SYMBOL	TYPE	D(mm)	S(mm)	A(mm)

Approve by:

孙宗涛

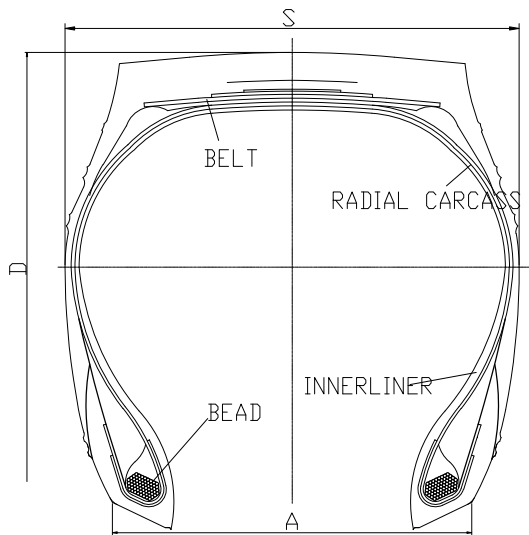
Check by:

顾伟

Draft by:

鉴继超

Page 1 of 2



TREAD PATTERNS

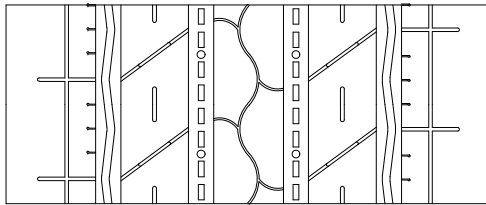
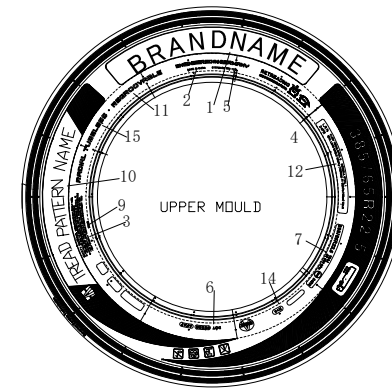
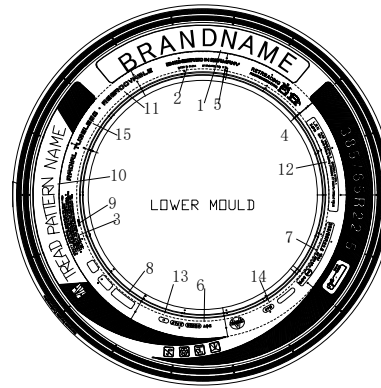


TABLE 1

BRAND NAME	TREAD PATTERN NAME
AUFINE	SMART AEL5;MASTER MAS300
MAXELL	SUPER HA1



15	RADIAL TUBELESS	
14	M+S	
13	**** (DATE CODE)	
12	L. R. N PLIES:TREAD STEEL 5 SIDEWALL STEEL 1 24PR MAX. LOAD SINGLE 5000kg(11000lbs) AT 950kPa(138psi) COLD	
11	REGROOVABLE	
10	TREAD PATTERN NAME (SEE THE TABLE 1 ON THE LEFT)	
9	**** (MOLD NUMBER)	
8	(E4) XXXXXX S2WR2 XXXXXX	
7	385/55R22.5 AT 164J AT 950kPa (162K) 24PR	
6	DOT ***** **	
5	STANDARD RIM 12.25	
4	385/55R22.5	
3	SAFETY WARNING	
2	MADE IN CHINA	
1	BRAND NAME (SEE THE TABLE 1 ON THE LEFT)	
	LOWER MOULD	UPPER MOULD

385/55R22.5	164(162)	J(K)	TL	996	386	311.15
TYRE SIZE	LOAD INDEX	SPEED SYMBOL	TYPE	D(mm)	S(mm)	A(mm)

Approve by:

孙宗涛

Check by:

顾伟

Draft by:

鉴继超

Page 2 of 2

REPORT No. CN23010757**APPROVAL OF PNEUMATIC TYRES FOR COMMERCIAL VEHICLES
AND THEIR TRAILERS REFERRING TO UN REGULATION NO. 54R00/25**

Approval number : E4*54R00/25*52093*00

Applicant : Wanli Tire Corporation Limited
3 Wanli Road Aotou Town, Conghua 510940
Guangzhou City, Guangdong Province
China (PRC)

Manufacturer : Wanli Tire Corporation Limited
3 Wanli Road Aotou Town, Conghua 510940
Guangzhou City, Guangdong Province
China (PRC)

Brand-name(s)/trademark(s) : AUFINE; MAXELL

Trade description(s)/Commercial name(s) : SMART ATR9; MASTER MAS800; SUPER LT1;
SMART AEL5; MASTER MAS300; SUPER HAI

Tyre size designation : 385/55R22.5

Place and date of test report issue : L'Albornar, Santa Oliva (Tarragona)
31/01/2023

Tested pneumatic tyre **FULFILS** with the specifications regarding to the type approval of approval of pneumatic tyre referring to the Supplement 25 to the original version of the UN Regulation NO. 54 as specified in the annex of this report.

Performed by:

Zhu Yuan
HOMOLOGATION ENGINEER

Revised by:

Josep Masip Gomez
DEPARTMENT MANAGER

ANNEX TO THE REPORT

1. TECHNICAL DESCRIPTION OF THE PNEUMATIC TYRE:

Brand-name(s)/trademark(s)	:	AUFINE
Trade description(s)/Commercial name(s)	:	SMART AEL5
Tyre-size designation	:	385/55R22.5
Category of use	:	normal / snow /- special
Structure	:	diagonal / bias-belted / radial
Speed category index	:	nominal : J additional : K
Load-capacity index	:	nominal: single : 164 twinned : --- additional: single : 162 twinned : ---
X of the manufacturer /	:	0.80
Tyre cross-section	:	See technical documentation

2. TYRE MARKING

2.1. Compulsory Marking

Approval mark	:	
Approval mark Height > 12 mm	:	Yes
Tyre definition marking height	:	
Tyre size > 6 mm	:	Yes
Load and speed index > 6 mm	:	Yes

THE TESTS HAVE BEEN CARRIED OUT BY IDIADA AUTOMOTIVE TECHNOLOGY, S.A. (TS) LABORATORY ACCREDITED BY ENAC WITH NUMBER OF ACCREDITATION 35/LE2594

* THE PRESENTED RESULTS REFER ONLY TO THE TESTED SAMPLE
 * THE PARTIAL REPRODUCTION OF THIS REPORT WITHOUT THE PERMISSION OF IDIADA IS COMPLETELY FORBIDDEN

2.2. Additional Marking

“M+S” / “M.S” / “M&S”	:	Yes
“TUBELESS”	:	Yes
Index of inflation pressure	:	950 kPa
Ply rating	:	24 PR
“ET” / “ML” / “MPT” / “POR”	:	N.A.
“REGROOVABLE”	:	Yes
Date of manufacture	:	0123
Height of these marking > 4 mm	:	Yes

3. TEST RESULTS.

Sample Reception date	:	09/01/2023
Place and test dates	:	10/01/2023-12/01/2023 WANLI Testing Center (Hefei, China)
Sample Id.	:	CN23010757
Measure rim code	:	12.25 × 22.5
Test rim Code	:	12.25 × 22.5

3.1. Pneumatic tyre measurement

Mounting pressure in measuring rim	:	P(1m) = 9.5 bar
Conditioning temperature	:	Temp. = 20 °C
Adjusted pressure before conditioning	:	P(2m) = 9.5 bar
Readjusted pressure after 24 hours	:	P(3m) = 9.5 bar

3.1.1. Tyre width measurement:

Measures of **overall width** at six equally-spaced points:

Point	Overall width (mm)
1	380.6
2	381.2
3	381.1
4	381.3
5	380.5
6	380.6
Point	Maximum width (mm)
4	381.3

3.1.2. Tyre section width calculation:

S = 386 (mm) given by Annex 5/Calculation

Or

$$S = S_1 + K(A - A_1)$$

Nominal section width (mm)	385
K coefficient	0.4
Measuring rim Width (mm)	311.15
X of the manufacturer	0.80
Theoretical rim Width (mm)	308

Maximum measured width (mm)	Section width (mm)	Difference (%)
S_M = 381.3	S = 386	-1.22

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 width 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~~

3.1.3. Outer diameter measurement

Maximum circumference (mm)	Outer diameter (mm) $D_{i\ ext} = \frac{L}{\pi}$
3119	992.8

3.1.4. Tyre outer diameter calculation:

$$D = d + 2H$$

Conventional number of the nominal rim(mm)	d = 572 mm
Nominal section width (mm)	385
Nominal aspect ratio	55
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 = 212 mm

Dmin $D_{min} = d + 2(H \times a)$	Outer diameter D (measured)	Dmax $D_{max} = d + 2(H \times b)$
984 mm	992.8 mm	1022 mm
Dmin < D < Dmax		

FULFILS / DOES NOT FULFIL

3.2 Load/speed performance test

3.2.1 For tyres with speed category symbol Q and above:

Test Conditions

Speed category	N.A.
Load capacity index	N.A.
Maximum velocity (km/h)	N.A.
Test axle load (kg)	N.A.
Maximum speed during the test (km/h)	N.A.
Load of axle during the test (kg)	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 (min)	Speed (km/h)
1	N.A.	N.A.
2	N.A.	N.A.
3	N.A.	N.A.
4	N.A.	N.A.
TOTAL	N.A.	

3.2.2 Tyres with speed category symbol P and below:

Test Conditions

Speed category	K
Load capacity index	164
Maximum velocity (km/h)	110
Test drum speed during the test (km/h)	56
Load of axle during the test (kg) (100%)	5000
Inflation tyre pressure before conditioning(kpa)	950
Conditioning time wheel-tyre assembly(hour)	3
Readjusted tyre pressure after conditioning (kpa)	950
Test wheel diameter (m)	1.7
Temperature (°C)	20-30

Test cycle

Step	Duration (h)	Load (kg)	
1	7	66%	3300
2	16	84%	4200
3	24	101%	5050
TOTAL	47		

3.2.3 Tyre measurement

Outer diameter measurement at the start of test	N.A.
Outer diameter measurement at the end of test	N.A.
Percentage of the change in outer diameter measurement (%)	N.A.

* THE PRESENTED RESULTS REFER ONLY TO THE TESTED SAMPLE
 * THE PARTIAL REPRODUCTION OF THIS REPORT WITHOUT THE PERMISSION OF IDIADA IS COMPLETELY FORBIDDEN

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.

~~FULFILLS / 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.

~~FULFILLS / DOES NOT FULFIL~~

Test Place : WANLI Testing Center (Hefei, China)

Test Date : 10/01/2023-12/01/2023

袁柱

Zhu Yuan
HOMOLOGATION ENGINEER