



THE UNITED KINGDOM VEHICLE APPROVAL AUTHORITY

COMMUNICATION CONCERNING APPROVAL GRANTED OF A TYPE OF PNEUMATIC TYRE FOR
MOTOR VEHICLES PURSUANT TO UN REGULATION NO. 54.00

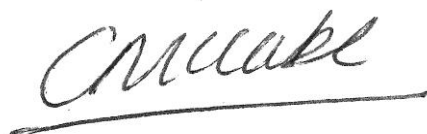


Approval No: E11*54R00/24*20660*00

1. Manufacturer's name and address:

Otani Radial Co., Ltd.
96 MU 3 Rimklong Banrai Rd.
Bangkeaw, Nakornchaisri,
Nakornpathom 73120, Thailand
2. Tyre type designation ⁽¹⁾:
 - 2.1. Brand name(s)/trademark(s): OTANI
 - 2.2. Trade description(s)/commercial name(s): OH-204
3. If applicable, name and address of manufacturer's representative: Not applicable
4. Summarised description:
 - 4.1. Tyre-size designation: 265/70R19.5
 - 4.2. Category of use: Snow
 - 4.3. Structure: Radial
 - 4.4. Tyre class: C3
 - 4.5. Speed category symbol:
 - 4.5.1. Nominal: K
 - 4.5.2. Additional (if applicable): Not applicable

- 4.6. Load-capacity indices:
- 4.6.1 Corresponding to nominal speed: Single: 143, twinned (dual): 141
- 4.6.2 Corresponding to additional speed: Single: Not applicable, twinned (dual): Not applicable
5. Technical Service and, where applicable, test laboratory approved for purposes of approval or of verification of conformity: Vehicle Certification Agency and Inter Tire Tech R&D Co. Ltd.
6. Date of report issued by that Service: 03 May 2023
7. Number of report issued by that Service: ISA597172
8. Reason(s) of extension (if applicable): Not applicable
9. Any remarks: None
10. Place: BRISTOL
11. Date: 22 MAY 2023
12. Signature:



C McCABE
Chief Technical and Statutory Operations Officer

13. Annexed to this communication is 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.

(1) A list of brand name(s)/trademark(s) or Trade description(s)/ Commercial name(s) may be annexed to this communication.



Vehicle
Certification
Agency

THE UNITED KINGDOM VEHICLE APPROVAL AUTHORITY

APPROVAL NUMBER: E11*54R00/24*20660*00

INFORMATION PACKAGE CONTENTS

INDEX REVISION NUMBER: 00

Conformity of Production (COP) Declaration **COP Confirmed**

Assessment Method **ISO & Control Plans**

Date of Initial Clearance **Pre** **2013**

Date of Last Clearance **July** **2022**

Total number of sheets: 02 (Two)

Reasons for Revision: Not applicable

Revision Date
&
Office Stamp

Application form for approve of type of pneumatic for radial truck and bus according to ECE regulation no.54 (Supplement 24)

1. Manufacturer's name and address : OTANI RADIAL CO., LTD.
96 MU 3 RIMKLONG BANRAI RD.
BANGKEAW, NAKORNCHAI SRI,
NAKORNPATHOM 73120, THAILAND
2. Tyre type designation : -
 - 2.1 Brand-name(S)/trademark(S) : OTANI
 - 2.2 Trade description(S)/Commercial name(S) : OH-204
3. Tyre class : C3
4. If applicable name and address of Manufacturer's representative : Not applicable
5. Size designation of tyre : 265/70R19.5
6. Category of use : ~~normal~~/special/snow
7. Structure : ~~diagonal (bias-ply)~~/Radial
8. Speed category : K
9. Load capacity index : 143/141
10. Overall dimension : ~~Annex 5~~/Calculated
 - 10.1 Overall width : 258 mm.
 - On measure rim : 7.50 X 19.5 J
 - 10.2 Outer diameter : 870 mm.
11. Factor X : 0.75
12. Ply rating number : 18
 - 12.1 Side wall : 1
 - Tread : 5
13. Rims on which tyre can be mounted : 7.50 inches
14. Measuring and test rim : 7.50 inches
15. State whether tyre is : Tubeless /~~Tube type~~
16. State whether tyre is : Normal / ~~reinforced~~
17. Submitted for approval on (date) : Mar 10, 2023

We here with declare that we have not applied and will not apply for any approval with another contracting party Of ECE for the same type of product.

MANUFACTURER'S STAMP



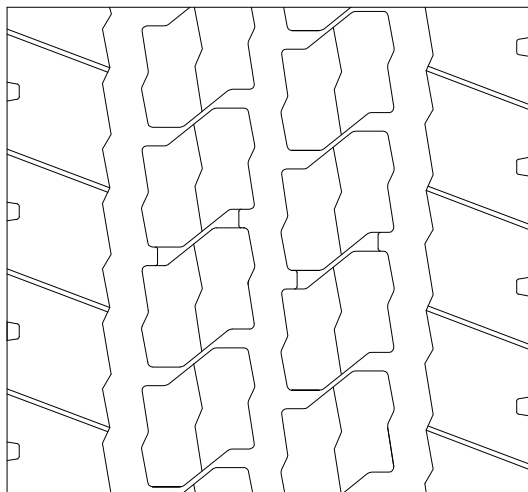
Signature:



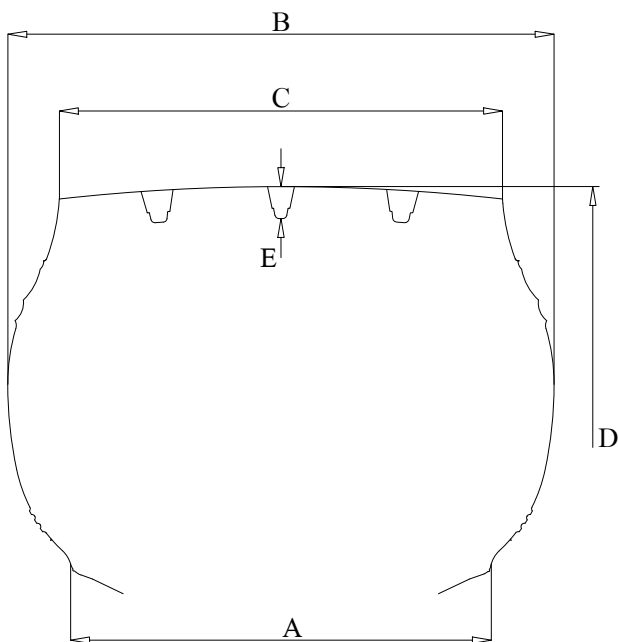
Name: Boonmee Jitirjai

THIS APPLICATION IS ACCOMPANIED BY:

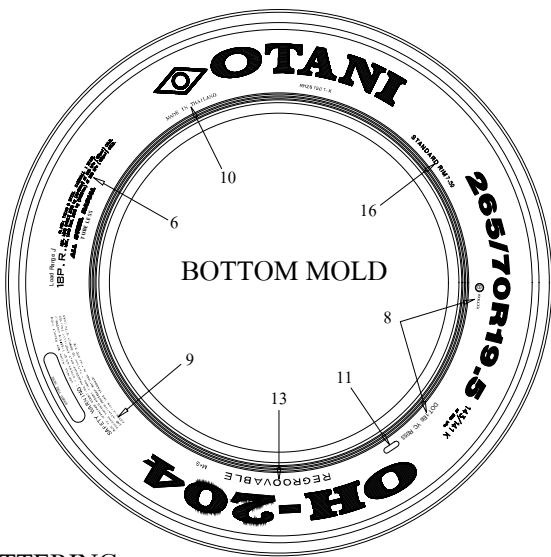
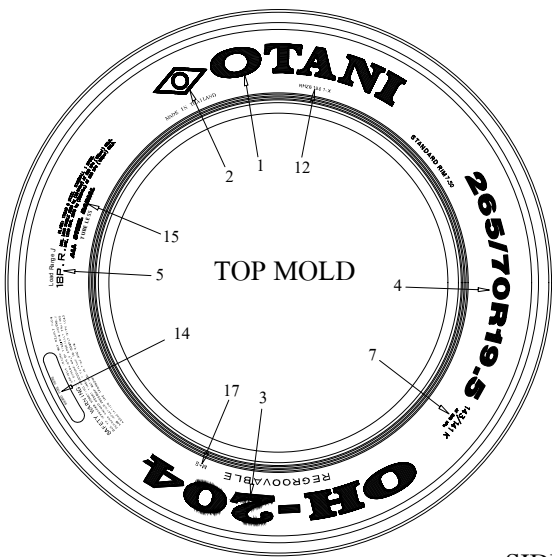
- Application form, relating to ECE approve for a pneumatic tyre pursuant Regulation Number R54(Supplement24)
- A drawing of tyre side wall, Tread and dimension cross section.
- Test report



TREAD PATTERN



CROSS SECTION



SIDE LETTERING

No	ITEM	DESCRIPTION	HEIGHT (mm)
1	TRADE MARK	OTANI	42
2	LOGO	OTANI LOGO	42
3	PATTERN	OH-204	40
4	TYRE SIZE	265/70R19.5	24
5	PLY RATING / LOAD RANGE	18 P.R. / LOAD RANGE / J	10 / 6 / 7
6	MAX.LOAD / TREAD / SIDEWALL	MAX.LOAD SINGLE 2725 kg (6010 lbs) AT 860 kPa (125 psi) COLD.	3.5
		MAX.LOAD DUAL 2575 kg (5680 lbs) AT 860 kPa (125 psi) COLD.	3.5
		5/1	3.5
7	LOAD INDEX / SPEED INDEX	143/141 K / AT 860 kPa	8 / 3.5
8	MARKING SD.	DOT 1E6 YC R053	6
		E11 XXXXXX	6 / 4
9	SAFETY WARNING	SAFETY WARNING	6 / 3
10	COUNTRY OF ORIGIN	MADE IN THAILAND	5
11	WEEK NUMBER	WEEK No.	5
12	MOLD NUMBER	RHZ61901-X	5
13	REGROOVABLE	REGROOVABLE	10
14	BRAND TIRE HERE	BRAND TIRE HERE	3
15	MARKING TIRE TYPE	ALL STEEL RADIAL / TUBELESS	5
16	STANDARD RIM	STANDARD RIM 7.50	5
17	MARKING M+S / 3PMSF	M+S	6

A (inch/mm)	B (mm)	C (mm)	D (mm)	E (mm)	OTANI RADIAL CO., LTD.		
7.50 / 191	258	215	870	14	TITLE	265/70R19.5 OH-204 18PR	
REMARK :					CHEK/APPV D	MR. WITTAYA C.	SIGNATURE : W
					DRAWN BY.	MR. SAHARAT K.	SIGNATURE : SK
					DATE	18 May 2023	REVISION : 00





Inspection/Test Report: Pneumatic Tyres for Commercial Vehicles and their Trailers

Legislation

UNECE Regulation 54.00 to Supplement 24

Inspection/Test Details

Location of Inspection/Test: Inter tire tech R&D - Bangkok
Date of Inspection/Test: 25 February 2023 to 28 February 2023
VCA Representative(s): Aekansh Saxena
Inspectors office location: VCA India
Manufacturer's Representative(s): Boonmee Jitrjai
Reason for Test Report: New approval

Manufacturer Details

Name and Address: Otani Radial Co., Ltd.
96 MU 3 Rimklong Banrai Rd.
Bangkeaw, Nakornchaisri,
Nakornpathom 73120, Thailand
Type: 265/70R19.5
Commercial Description: OH-204
Category: Radial (Snow Use)

Conclusion

The above mentioned [vehicle / engine / component] was tested in accordance with the above mentioned legislation and was found to comply in all respects listed in this report. This report relates only to the items tested.

Witness Engineer/Test Engineer
Signature:

Name: Aekansh Saxena
Position: Sr. Type Approval Engineer
Date: 3 May 2023

List of Annexes

Annex	No of Pages	Subject
I	01	Dimension Calculation Sheet
II	01	Calibration Data Table



Issue Record

Issue 0 is original report

Worst Case Rationale

Representative Commercial (Radial) tyre with tyre size designation 265/70R19.5 having nominal speed category symbol K and corresponding load capacity index to speed category 143/141 has been tested as per the requirements of UN ECE R54

Manufacturer holds approved laboratory status from VCA

Unused section removed for clarity

Note: Include information on variants and versions this report covers, as applicable. Supporting documents may be annexed to this report

Significant Interpretations, Alternative Test Methods, New Technologies

None

Inspection/Tests Required

	Yes, NA, See Report ... / Approval ... / Annex ...
Measurement of Section Width:	Yes
Measurement of Outer Diameter:	Yes
Load/speed Endurance test	Yes
Markings	Yes

Tyre Specification

Tyre Size Designation:	265/70R19.5
Category of Use:	Snow Use
Structure:	Radial
Speed Category Symbol:	K
Load Capacity Index:	143/141

Manufacturer's Documentation

Manufacturer's documentation is complete and reflects the agreed specification for the tyre tested and covers all variants and versions agreed in the worst case rationale. Information document uploaded to job folder and identified by job number.

Yes

Facility and Equipment Checks

Facility Appraisal reference and date (*Reference and date if formal; state if ad-hoc appraisal*).

FAIND114 and 12 July 2022





Report Number: ISA597172 Issue: 0

This test report shall not be reproduced except in full, without
written approval of the technical service.

Calibration certificates are traceable to national or international standards of
measurement, where available:

Yes

Calibration certificates checked and valid, recorded in the following table:

Yes

Note: Please refer Annex-II attached with this VCA Test Report

Equipment

Description	Make	Model	Serial number	Calibration due date*

*Specify calibrated date + (interval) or calibration due date.



Inspection/Test Requirements

Complies
Yes / NA

Reg 54, Ann 7

LOAD/SPEED ENDURANCE TEST

Make and designation of test machine as described in the regulation

Yes

Calibration dates: - Speed

11.01.2024

Yes

Inflation pressure gauge

18.10.2023

Yes

Load

13.09.2023

Yes

Test rim

495 mm

Yes

Inflation pressure

8.6 bar

Yes

Measured outer diameter pre-test

870 mm

Yes

Reg 54, Ann 7,
Appendix 1

Test drum speed

56

kmph

Yes

Reg 54, Ann 7, 2.4

Test Cell Temperature at start of test

38

°C

Yes

Reg 54, Ann 7,
Appendix 1

First stage test load (Duration 7 hr)

1799

kg

Yes

Second stage test load (Duration 16 hr)

2289

kg

Yes

Third stage test load (Duration 24 hr)

2752

kg

Yes

Reg 54, Ann 7, 3.

For Q and above rated tyres with a Load index 121 or less: 1.70M
drum = 90% load or 92% load for 2.0M drum.

Time to reach initial test speed (10 mins)

NA

km/h

NA

First test speed MAX LESS 20km/hr (10 mins)

NA

km/h

NA

Second stage test load MAX LESS 10km/hr (10 mins)

NA

km/h

NA

Third stage test load MAX SPEED (30 mins)

NA

km/h

NA

Reg 54, Ann 7, 2.4

Test Cell Temperature during test Max

39.42

°C

Yes

Test Cell Temperature during test Min

37.80

°C

Yes

Reg 54, 6.2.2

After Undergoing the Endurance test , Tyre does not exhibit any

	Pass/Fail
Tread Separation	Pass
Ply Separation	Pass
Cord Separation	Pass
Chunking	Pass
Broken Cords	Pass

Yes

Yes

Yes

Yes

Yes

Reg 54, 6.2.3

Measured outer diameter post test

875

mm

Yes



Difference between measured outer diameter post-test and measured
outer diameter pre-test

05 mm

Yes

Allowable difference between measured outer diameter pre and post-
test

0.57 ± 3.5%

Yes

Reg 54, 3

Markings

Reg 54, 3.1

Tyres submitted for approval shall bear on both side walls in the case
of symmetrical tyres and at least on the outer side wall in the case of
asymmetrical tyres:

Reg 54, 3.1.1

The manufacturer's name or the Brand name/trademark

Yes

Reg 54, 3.1.2

Trade description/commercial name (Not required if it is same as
above 3.1.1)

Yes

Reg 54, 3.1.3

Tyre-size designation

Yes

Reg 54, 3.1.5

Speed-category symbol (or symbols)

Yes

Reg 54, 3.1.5.1

An indication of the tyre's nominal speed category in the form of the
symbol

Yes

Reg 54, 3.1.5.2

An indication of a second speed category (where applicable)

NA

Reg 54, 3.1.6

The inscription M+S or M.S or M&S if the tyre is classified in the
category of use "snow tyre" or "special use tyre"

Yes

Reg 54, 3.1.7

Load capacity indices

Yes

Reg 54, 3.1.8

The word "TUBELESS" if the tyre is designed for use without an
inner tube

Yes

Reg 54, 3.1.9

The date of manufacture in the form of a group of four digits, the first
two showing the week and the last two the year of manufacture

Yes

Reg 54, 3.1.10

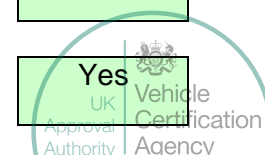
In the case of tyres which can be regrooved, the symbol at least
20mm in diameter, or the word "REGROOVABLE", moulded into or
on to each sidewall;"

Yes

Reg 54, 3.1.11

An indication, by the "PSI" index, of the inflation pressure to be
adopted for the load/speed endurance tests

Yes





This test report shall not be reproduced except in full, without
written approval of the technical service.

Reg 54, 3.1.13	Inscription "MPT" (or alternatively "ML" or "ET") and /or "POR" if the tyre is classified in the category of use "special use tyre".	NA
Reg 54, 3.1.14	The inscription "LT" after the service description, if it is not marked as part of the tyre size designation; tyres whose tyre-size designation includes the suffix "C" or "CP" may be marked with the additional inscription "LT" away from the tyre-size designation;	NA
Reg 54, 3.1.15	The inscription "FRT" (Free Rolling Tyre) in case of tyres designed for the equipment of trailer axles and axles of motor vehicles other than front steering and drive axles.	NA
Reg 54, 3.2	Space for Approval Mark	Yes

Remarks

Load/Speed Endurance Test conducted at Machine No B1529 (Left Position)

Annex I

265/70R19.5 18PR 143/141K OH-204

SECTION WIDTH OF TIRE

S	=	$S1 + k (A-A1)$	
S1	=	265	mm.
k	=	0.4	
A	=	7.50x25.4	mm.
		191	mm.
Fx	=	0.75	mm.
A1	=	$S1 \times 0.75$	mm.
	=	199	mm.
S	=	262	mm.
Section width (Radial Over 4%)	=	272	mm.

OVER ALL DIMENSION

D_{min}	=	$d + 2 \bullet H_{min}$	
D_{max}	=	$d + 2 \bullet H_{max}$	
a	=	0.97	
b	=	1.04	
d	=	19.5 x 25.4	
	=	495	mm.
Ra	=	70	
S1	=	265	mm.
H	=	$S1 \bullet 0.01 Ra$	
	=	186	mm.
D_{min}	=	855	mm.
D_{max}	=	881	mm.
D_{max . snow}	=	$1.01 \cdot D_{max}$	
	=	890	mm.

Annex II

TEST EQUIPMENTS INFORMATION

MACHINE

DRUM TEST FOR TBR TIRE

SERIAL NUMBER

B1529

EQUIPMENT NAME	SERIAL NUMBER OTANI	CAL. DATE	VALID UNTIL
DIAMETER DRUM	DT- DM001	12-01-2023	11-01-2024
LOAD CELL NO. 1 (Left position)	DT - LC001	14-09-2022	13-09-2023
LOAD CELL NO. 2(Right position)	DT - LC002	14-09-2022	13-09-2023
RADIUS NO. 1 (Left position)	DT - RD001	12-01-2023	11-01-2024
RADIUS NO. 2 (Right position)	DT - RD002	12-01-2023	11-01-2024
SPEED	DT - SP001	12-01-2023	11-01-2024
TEMPERATURE CONTROLLER NO.1(Left position)	DT - TC001	03-06-2022	02-06-2023
TEMPERATURE CONTROLLER NO.2(Right position)	DT - TC002	16-06-2022	15-06-2023

MACHINE

DRUM TEST FOR TBR TIRE

SERIAL NUMBER

B1528

EQUIPMENT NAME	SERIAL NUMBER OTANI	CAL. DATE	VALID UNTIL
DIAMETER DRUM	DT - DM002	12-01-2023	11-01-2024
LOAD CELL NO. 1 (Left position)	DT - LC003	14-09-2022	13-09-2023
LOAD CELL NO. 2(Right position)	DT - LC004	14-09-2022	13-09-2023
RADIUS NO. 1 (Left position)	DT - RD003	12-01-2023	11-01-2024
RADIUS NO. 2 (Right position)	DT - RD004	12-01-2023	11-01-2024
SPEED	DT - SP002	12-01-2023	11-01-2024
TEMPERATURE CONTROLLER NO.1(Left position)	DT - TC003	03-06-2022	02-06-2023
TEMPERATURE CONTROLLER NO.2(Right position)	DT - TC004	16-06-2022	15-06-2023

GENERAL EQUIPMENT

EQUIPMENT NAME	SERIAL NUMBER OTANI	CAL. DATE	VALID UNTIL
PI TAPE	DT PI 001	28-11-2022	27-11-2023
NON-Contact Tachometer	DT-DS-002	23-08-2022	22-08-2023
PRESSURE GAGE	DT P001	19-10-2022	18-10-2023
TEMPERATURE CONTROLLER (OUT SIDE ROOM)	DT - TC010	12-01-2023	11-01-2024