



INSTITUT GUMÁRENSKÉ TECHNOLOGIE A TESTOVÁNÍ, A.S.
RUBBER TECHNOLOGY AND TESTING INSTITUTE, Plc.
INSTITUT FÜR GUMMITECHNOLOGIE UND PRÜFWESEN, A.G.
A.O. «ИНСТИТУТ ТЕХНОЛОГИИ РЕЗИНЫ И ИСПЫТАНИЙ»

Společnost je zapsána v obchodním rejstříku vedeném Krajským soudem v Brně, oddíl B, vložka 818



Zlín 06th October 2023

E8*75R00/19*1522*00

Trelleborg Wheel Systems Moto d.o.o.
Škofjeloška cesta 6
4000 Kranj
SLOVENIA

Communication concerning the approval and notification of approval number and inspection report issued by Inspection body IGTT

Tyre type fully complies requirements of ECE/UN R75.

Enclosed you will find the Communication concerning the approval of your tyres according to ECE/UN Regulation No. 75

On the base of this approval you are entitled to produce in your factory tyres of the dimension:

90/90B21 MITAS ENDURO TRAIL+ E-07+ DAKAR 54H

with the approval number : **E8 75R - 001522**
date of inspection : **06th October 2023**

inspector's name : **Václav Hořelka**

Sincerely yours,



Václav Hořelka
Head Of Tyre Approval Department
Head Of Inspection Body IGTT

**APPLICATION FOR APPROVAL OF A TYPE OF PNEUMATIC TYRE
FOR MOTORCYCLES AND MOPEDS ACCORDING TO ECE REGULATION No. 75**

E8 75R – 001522

4.1.1. Tyre size designation:	90/90B21
4.1.2. Manufacturers name, tyre name:	MITAS, ENDURO TRAIL+ E-07+ DAKAR
4.1.3. The category of use:	SNOW
4.1.4. Structure (diagonal, bias belted, radial):	BIAS BELTED
4.1.5. The speed category:	H
4.1.6. The load-capacity index of the tyre:	54
4.1.7. Tube type or Tubeless:	TUBELESS/TUBE TYPE
4.1.8. Normal or Reinforced:	NORMAL
4.1.9. Ply rating number of tyres for motorcycle derivatives:	TREAD: 2 POLYESTER + 2 ARAMID SIDEWALL: 2 POLYESTER
4.1.10. The overall dimensions overall section width: overall diameter:	Overall section width: 89.9 mm Overall diameter: 704.0 mm
4.1.11. The rims on which the tyre can be mounted:	1.85-21, 2.15-21, 2.50-21
4.1.12. The measuring rim and test rim:	2.15-21
4.1.13. The test and measurement pressure	Test pressure: 350 kPa Measuring pressure: 280 kPa
4.1.14. Factor x	/
4.1.15. Max allowed speed for load-capacity defined in 4.1.6.	210 km/h

Manufacturer's name and address:

Tyre Manufacturer (1)

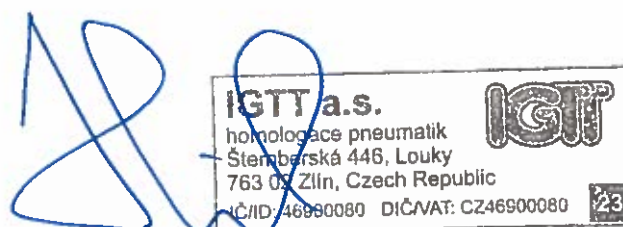
SYAM Trelleborg Tires LLP
Plot No. 521, Sayakha Industrial Estate,
Near Village Juned, Taluka Vagra,
Dist. Bharuch, Gujarat, Pin-392140.

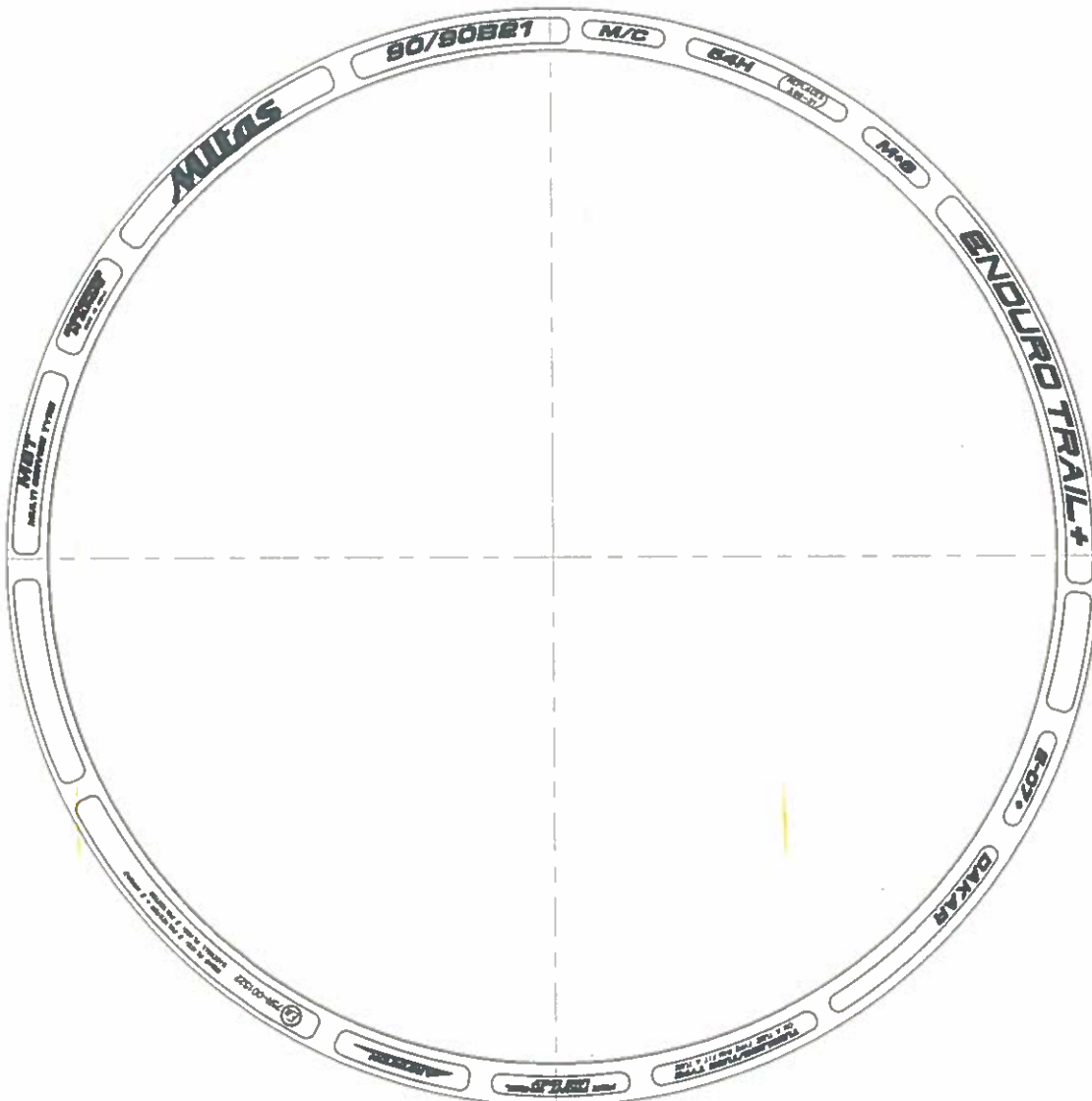
Tyre Manufacturer (2)

Trelleborg Wheel Systems Czech Republic a.s.
Výrobní úsek Zlín, Šedesátá č.p. 5638
762 02 Zlín, CZECH REPUBLIC

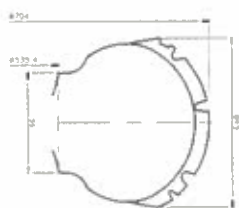
Tyre Manufacturer (3)

Trelleborg Wheel Systems Moto d.o.o.
Škofjeloška cesta 6,
4000 Kranj, Slovenia

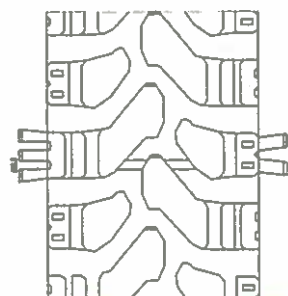




OPTIONAL ON TIRE - 100% HALF OF THE ROAD
(view 1)



2nd CLAMP 30 HOLETS SECOND



OPTIONAL ON TIRE - 100% HALF OF THE ROAD
(view 1)

Mitas	
90/90B21	M/C
64H	M-9
ENDURO TRAIL+	DAKAR
B-97+	M-9
Mitas is a registered trademark of Mitas Rubber Co., Ltd. All rights reserved. Mitas is a registered trademark of Mitas Rubber Co., Ltd. All rights reserved.	

IGTT as.
homologace pneumatik
Štemberská 446, Louky
763 03 Zlín, Czech Republic
IČ/ID: 469 00080 DIČ/VAT: CZ46900080

IGT

23



TEST REPORT No. 2023 - 4444

TTC Zlin, Šternberská 446, Louky, 763 02 Zlin

Testing Laboratory No. 1253, accredited by Czech Accreditation Institute according to ČSN EN ISO/IEC 17025:2018

1. Customer: Trelleborg Wheel Systems Moto. d.o.
Škofjeloška cesta 6
4000 Kranj
Slovenia
Responsible: Mr. Lončarič
Requirement No.: DLI/23093
Dept.: Moto Kranj Task: 07R/2023/DLI
Project No.: 70001187
Application date: 28.07.2023
Report issue date: 02.08.2023
Test motive: Prototype tyres V1.V2 (ECE homologation), Code: 70001187 (224657)

2. Tested sample: Tyre
Dimension 90/90B21
Name: Mitas Enduro Trail+ Dakar E-07+
Designation V1
Product: TWS India
Approval E8 75R 001522
LI: 54 SS: H IP: 290 kPa PR LR: B Type TL/TT M+S M
Weight: 5.24 kg Measuring rim 2.15x21 DOT: 05J DOP: 2723

3. Test: Sidewall lettering inspection
Method: KPB-M-003 accredited

4. Test condition: Testing machine: - Drum: - mm Ambient temperature: 25±5°C
Testing rim: 2.15x21 H2 Inflation: kPa
Load: daN Drum speed: km/h Slip: 0° Camber: 0°
Cycle min/max: Track min/max: km

5. Results: See appendix of protocol: 23-4444
Undergo cycles: Undergo track: km

6. Evaluation: Criterion defined in ECE-R75 and other standards
U = 0,5 mm

U: Expanded uncertainty = multiplying the combined standard uncertainty by a coverage factor k=2, what for normal distribution have a level of confidence of 95%

7. Appendix: 1. Tyre lettering inspection

8. Warning: Test results are concerning this sample only. It is strongly prohibited to copy any part of this report without permission of the Testing Laboratory. The results apply to the sample as received. All tests are performed in lab permanent facility. The laboratory is responsible for all the information provided in the report, except the "designation" which is provided by customer.

Approved by: Laboratory quality manager Ing. Petr Husták, Ph.D.



Sample No.: 56543 Size: 90/90B21

Mitas Enduro Trail+ Dak Method: KPB-M-003

Date: 01.08.2023

Dimension of approval mark:

diameter of circle: 0 mm

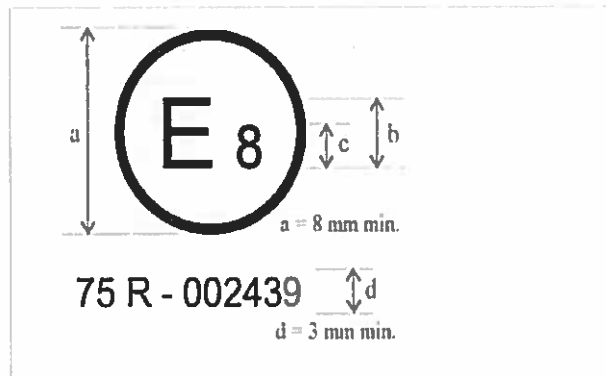
height of letter E: 0 mm

height of number: 0 mm

height of text 75R....: 0 mm

Sidewall lettering:

b >= 4 mm (min): 3 mm



b TUBELESS M + S

Measured where (text): Tubeless

Size designation (text): Yes

Structure (diagonal/bias belted/radial): B

Trade name (mark): Yes

Speed category (mark): No

Load capacity (mark): No

Ply rating (mark): No

TUBELESS (text): Yes

REINFORCED or REINF (text): No

M+S or M.S or MaS (mark): Yes

MST (mark): Yes

Date of production (wwyy): Yes

M/C (mark): Yes

MOPED or CYCLOMOTEUR (text): -

(W) for SS>270km/h: No

Running rotation (mark): Yes

Visible defects or damages: No

QC check mark (stamp): No

Manuf.name or country of or Yes

TWI markings: Yes

DP (mark): No

NHS (mark): No

TEST REPORT No. 2023 - 4446

TTC Zlin, Šternberská 446, Louky, 763 02 Zlín

Testing Laboratory No.1253, accredited by Czech Accreditation Institute according ČSN EN ISO/IEC 17025:2018

1. Customer: Trelleborg Wheel Systems Moto, d.o. Requirement No.: DLI/23093
 Škofjeloška cesta 6 Dept.: Moto Kran Task: 07R/2023/DLI
 4000 Kranj Project No.: 70001187
 Slovenia Application date: 28.07.2023
 Responsible: Mr. Lončarič Report issue date: 02.08.2023
 Test motive: Prototype tyres V1,V2 (ECE homologation), Code: 70001187 (224657)

2. Tested sample: Tyre Sort: M Ident. No.: 56543
 Dimension 90/90B21 Name: Mitas Enduro Trail+ Dakar E-07+
 Designation V1 Product: TWS India Approval E8 75R 001522
 LI: 54 SS: H IP: 290 kPa PR LR: B Type TL/TT M+S M
 Weight: 5.24 kg Measuring rim 2.15x21 DOT: 05J DOP: 2723

3. Test: Measurement of tyre dimensions
 Method: MZR-M-003 accredited

4. Test condition: Testing machine: - Drum: - mm Ambient temperature: 25±5°C
 Testing rim: 2.15x21 H2 Inflation: 280 kPa
 Load: daN Drum speed: km/h Slip: 0° Camber: 0°
 Cycle min/max: Track min/max: km

5. Results: Overall diameter: 704 mm
 Overall width: 89,9 mm
 Undergo cycles: Undergo track: km

6. Evaluation: Criterion defined in ECE-R75
 Udiam = 1,5 mm; Uwidth = 1.0 mm

U: Expanded uncertainty = multiplying the combined standard uncertainty by a coverage factor k=2, what for normal distribution have a level of confidence of 95%

7. Appendix: 1. Measurement of tyre dimensions

8. Warning: Test results are concerning this sample only. It is strongly prohibited to copy any part of this report without permission of the Testing Laboratory. The results apply to the sample as received. All tests are performed in lab permanent facility. The laboratory is responsible for all the information provided in the report, except the "designation" which is provided by customer.

Approved by: Laboratory quality manager Ing. Petr Hůsták, Ph.D.



Annex to protocol No.: 23- 4446 Measurement of tyre dimensions

Printed 02.08.2023

Sample No 56543 Tyre size: 90/90B21 Mitas Enduro Tra Method: MZR-M-003

Date of measurement	Tyre		Tyre width at six points on circumference						Overall tyre	
	inflation	cicumf.	1	2	3	4	5	6	width	diameter
	kPa	mm	mm	mm	mm	mm	mm	mm	mm	mm
02.08.2023	280	2 210	89,6	89,4	89,7	89,8	89,5	89,9	89,9	704



TEST REPORT No. 2023 - 4449

TTC Zlín, Šternberská 446, Louky, 763 02 Zlín

Testing Laboratory No.1253, accredited by Czech Accreditation Institute according ČSN EN ISO/IEC 17025:2018

1. Customer: Trelleborg Wheel Systems Moto. d.o. Requirement No.: DLI/23093
Škofjeloška cesta 6 Dept.: Moto Kran Task: 07R/2023/DLI
4000 Kranj Project No.: 70001187
Slovenia Application date: 28.07.2023
Responsible: Mr. Lončarič Report issue date: 02.08.2023
Test motive: Prototype tyres V1.V2 (ECE homologation), Code: 70001187 (224657)

2. Tested sample: Tyre Sort: M Ident. No.: 56544
Dimension 90/90B21 Name: Mitas Enduro Trail+ Dakar E-07+
Designation V2 Product: TWS India Approval E8 75R 001522
LI: 54 SS: H IP: 290 kPa PR LR: B Type TL/TT M+S M
Weight: 5.22 kg Measuring rim 2.15x21 DOT: 05J DOP: 2723

3. Test: Speed test
Method: RZ-M-003 accredited

4. Test condition: Testing machine: H1P Drum: 1700 mm Ambient temperature: 38±3°C
Testing rim: 2.15x21 H2 Inflation: 350 kPa capped
Load: 135 daN Drum speed: km/h Slip: 0° Camber: 0°
Cycle min/max: Track min/max: km

5. Results: Without failure.
Difference of tyre circumference at start and at end of test: 0.1 %
Undergo cycles: 69 527 Undergo track: 151 km

6. Evaluation: Criterion no defects and circumf.difference before and 6h after test max. ±3.5%
Uinfl = 3 kPa; Utime +1 s; Uspeed = 2 km/h;
Uload = 5% (40 - 500 daN), 1% (501 - 30000 daN)
U: Expanded uncertainty = multiplying the combined standard uncertainty by a coverage factor k=2, what for normal distribution have a level of confidence of 95%

7. Appendix: 1. Drum tyre test record

8. Warning: Test results are concerning this sample only. It is strongly prohibited to copy any part of this report without permission of the Testing Laboratory. The results apply to the sample as received. All tests are performed in lab permanent facility. The laboratory is responsible for all the information provided in the report, except the "designation" which is provided by customer.

Approved by: Laboratory quality manager Ing. Petr Husták, Ph.D.



IGTT a.s.
homologace pneumatik
Šternberská 446, Louky
763 02 Zlín, Czech Republic
IČ/O: 46900080 DIČ/VAT: CZ46900080

Sample No.: 56544		Dimension:		90/90B21		Mitas Enduro Trail			Test:		RZ-M-003		
ID No	Test stage	Date time dd.mm.yyyy hh:mm:ss	Step duration h:hh:mm:ss	Test duration hhh:mm:ss	Speed km/h	Load daN	Inflation kPa	Radius mm	Surface °C	Room °C	Distance km	Cycles	Diameter/ deflection mm
1	Start	01.08.2023 10:38:59	000:00:00	000:00:00			350			35,9			704
2	Cont	01.08.2023 10:59:45	000:20:00	000:20:00	85,3	137		344		36,1	28	13 110	8
3	Cont	01.08.2023 11:09:47	000:10:00	000:30:00	170,0	137		346		36,3	57	26 147	6
4	Cont	01.08.2023 11:19:49	000:10:00	000:40:00	180,0	137		347		36,4	86	39 882	6
5	Cont	01.08.2023 11:29:51	000:10:00	000:50:00	190,0	137		347		36,4	118	54 348	5
6	Cont	01.08.2023 11:39:53	000:10:00	001:00:00	200,0	137		347		36,5	151	69 527	5
7	Int M	01.08.2023 11:43:50	000:03:56	001:00:00						36,5			
8	Int O	01.08.2023 17:41:38	005:57:48	001:00:00			335			36,5			704
9	End	01.08.2023 17:41:42	000:00:04	001:00:00						36,5			

Tyre width immediately after end of test(mm): 90,5 - 90,6 - 90,5 - 90,4 - 90,6 - 90,6

Change of tyre circumference before test and 6h after test (%): 0,05



TEST REPORT No. 2023-4450

TTC Zlín, Šternberská 446, Louky, 763 02 Zlín

Testing Laboratory No.1253, accredited by Czech Accreditation Institute according ČSN EN ISO/IEC 17025:2018

1. Customer: Trelleborg Wheel Systems Moto. d.o. Requirement No.: DLI/23093
 Škofjeloška cesta 6 Dept.: Moto Kran Task: 07R/2023/DLI
 4000 Kranj Project No.: 70001187
 Slovenia Application date: 28.07.2023
 Responsible: Mr. Lončarič Report issue date: 03.08.2023
 Test motive: Prototype tyres V1,V2 (ECE homologation), Code: 70001187 (224657)

2. Tested sample: Tyre Sort: M Ident. No.: 56544
 Dimension 90/90B21 Name: Mitas Enduro Trail+ Dakar E-07+
 Designation V2 Product: TWS India Approval E8 75R 001522
 LI: 54 SS: H IP: 290 kPa PR LR: B Type TL/TT M+S M
 Weight: 5.22 kg Measuring rim 2.15x21 DOT: 05J DOP: 2723

3. Test: Dynamic growth test
 Method: MDN-M-003 accredited

4. Test condition: Testing machine: DN Drum: - mm Ambient temperature: 25±5°C
 Testing rim: 2.15x21 H2 Inflation: 290 kPa capped
 Load: daN Drum speed: 210 km/h Slip: 0° Camber: 0°
 Cycle min/max: Track min/max: km

5. Results: Max. centrifugal radius of tyre at max. speed: 354,4 mm
 Overall width of tyre at max. speed: 86,9 mm
 Undergo cycles: Undergo track: km

6. Evaluation: Criterion profil doesn't exceed limit curve
 Uinfl = 3 kPa; Utime +1 s; Uspeed = 2 km/h; Udist=0,7mm

U: Expanded uncertainty = multiplying the combined standard uncertainty by a coverage factor k=2, what for normal distribution have a level of confidence of 95%

7. Appendix: 1. Tyre profile record : S1-Test limit, S2-10 km/h, S3-210 km/h

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Approved by: Laboratory quality manager Ing. Petr Husták, Ph.D.



IGT a.s.
 homologace pneumatik
 Šternberská 446, Louky
 763 02 Zlín, Czech Republic
 IČ/D: 46900080 DIČ/VAT: CZ46900080



