



INSTITUT GUMÁRENSKÉ TECHNOLOGIE A TESTOVÁNÍ, A.S.
RUBBER TECHNOLOGY AND TESTING INSTITUTE, Plc.
INSTITUT FÜR GUMMITECNOLOGIE 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*1521*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+ 54H

with the approval number : **E8 75R - 001521**
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 – 001521

4.1.1. Tyre size designation:	90/90B21
4.1.2. Manufacturers name, tyre name:	MITAS, ENDURO TRAIL+ E-07+
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: 89.6 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)

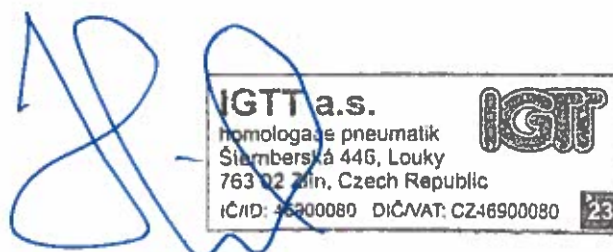
SYAM Trelleborg Tires LLP
Plot No. 521, Sayakha Industrial Estate,
Near Village Juned, Taluka Vagra,
Dist. Bharuch, Gujarat, Pin-392140.

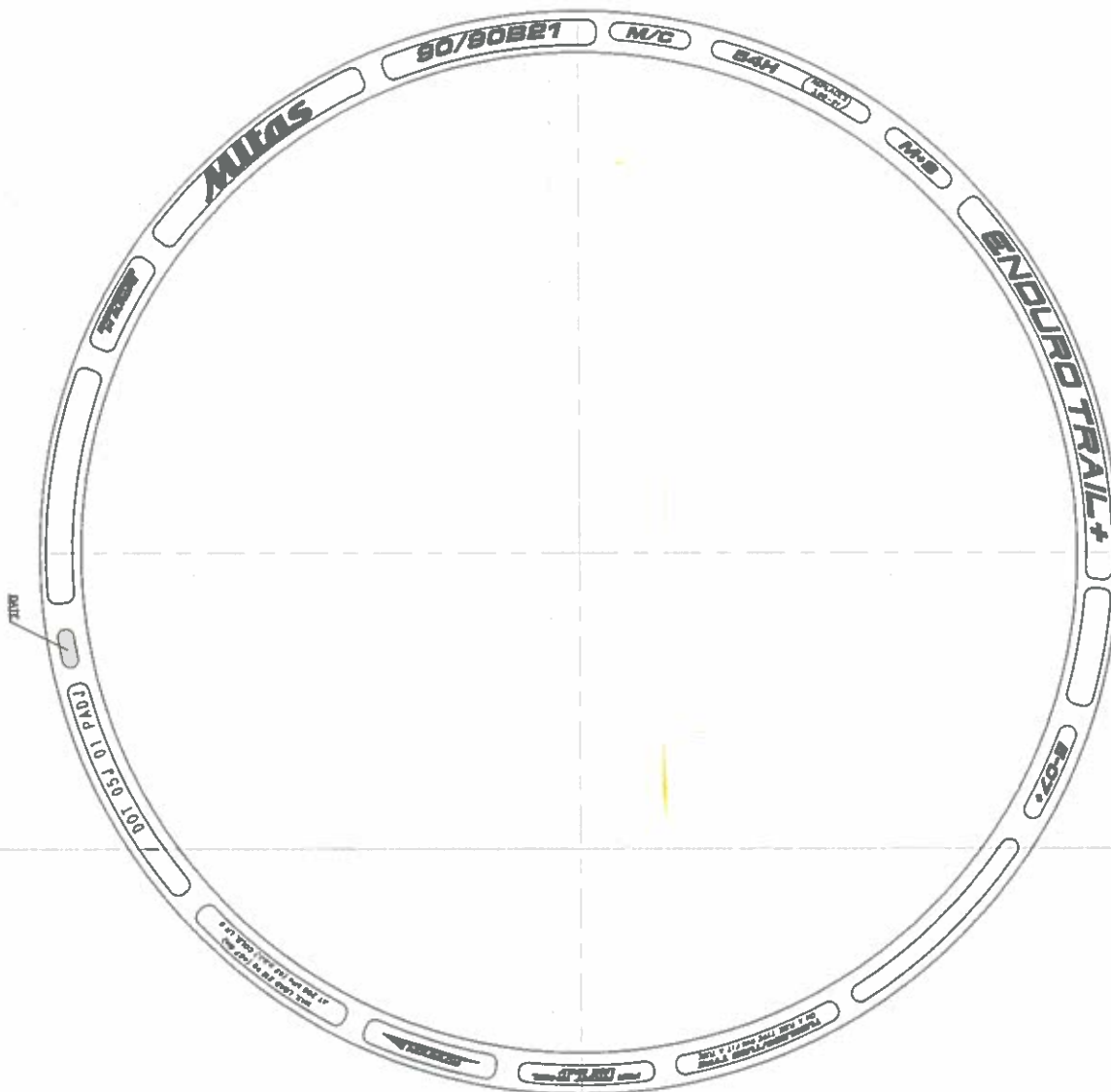
Tyre Manufacturer (2)

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





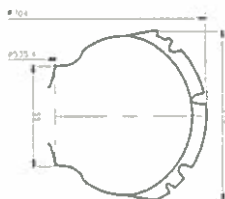
POVRCHU NA TĚLE - BODU NA/ OF THE WALLS
(see 3)



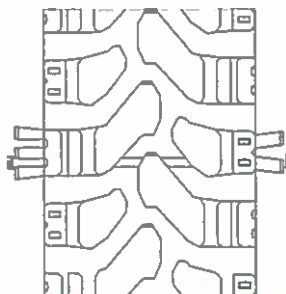
IGTT a.s.		IGTT	
homologace pneumatik		IGTT	
Štemberská 446, Louky		IGTT	
763 02 Olín, Czech Republic		IGTT	
IC/ID: 46900060 DIČ/VAT: CZ46900080		IGTT	
23		IGTT	

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IGTT a.s.
 homologace pneumatik
 Štemberská 446, Louky
 763 02 Olín, Czech Republic
 IC/ID: 46900060 DIČ/VAT: CZ46900080



CROSS SECTION OF MOUNTAIN THE



ORIGINAL (over) writes (CROSSING ?) MAY = [-0.7 + PARTIAL]

[illegible]



TEST REPORT No. 2023 - 4418

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/23092
 Škofjeloška cesta 6 Dept.: Moto Kran Task: 07P/2023/DLI
 4000 Kranj Project No.: 70001186
 Slovenia Application date: 28.07.2023
 Responsible: Mr. Lončarič Report issue date: 01.08.2023
 Test motive: Prototype tyres VI (ECE homologation). Code: 70001186 (224654)

2. Tested sample: Tyre Sort: M Ident. No.: 56559
 Dimension 90/90B21 Name: Mitas Enduro Trail+ E-07+
 Designation VI Product: TWS India Approval E8 75R 001521
 LI: 54 SS: H IP: 290kPa PR LR: B Type TL/TT M+S M
 Weight: 5,18 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: 23-4418
 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, P.D.



Sample No.: 56559 Size: 90/90B21 Mitas Enduro Trail+ E-07 Method: KPB-M-003

Date: 31.07.2023

Dimension of approval mark:

diameter of circle: 0 mm

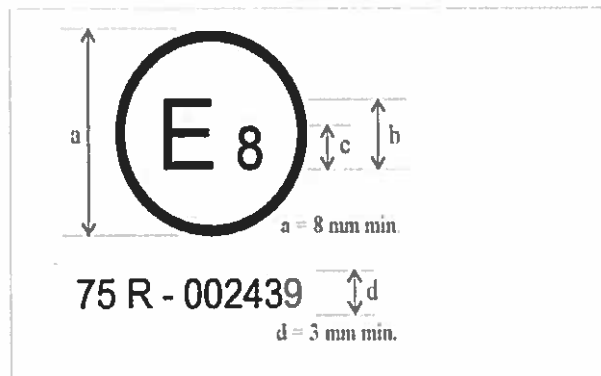
height of letter E: 0 mm

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 (wvyy): 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 - 4420

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.
Škofjeloška cesta 6
4000 Kranj
Slovenia
Requirement No.: DLI/23092
Dept.: Moto Kranj Task: 07P/2023/DLI
Project No.: 70001186
Application date: 28.07.2023
Responsible: Mr. Lončarič
Report issue date: 01.08.2023
Test motive: Prototype tyres VI (ECE homologation), Code: 70001186 (224654)

2. Tested sample: Tyre
Sort: M Ident. No.: 56559
Dimension 90/90B21 Name: Mitas Enduro Trail+ E-07+
Designation VI Product: TWS India Approval E8 75R 001521
LI: 54 SS: H IP: 290 kPa PR LR: B Type TL/TT M+S M
Weight: 5.18 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: 89.6 mm
Undergo cycles: Undergo track: km

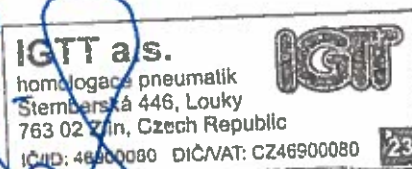
6. Evaluation: Criterion defined in ECE-R75
Udiam = 1.5 mm; Uwidth = 1.0 mm

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 Husták, Ph.D.



Sample No 56559 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
01.08.2023	280	2 212	89,2	89,6	89,5	89,4	89,5	89,2	89,6	704



TEST REPORT No. 2023 - 4423

TTC Zlin, Šternberská 446, Louky, 763 02 Zlin

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

1. Customer: Trelleborg Wheel Systems Moto, d.o.
Škofjeloška cesta 6
4000 Kranj
Slovenia
Requirement No.: DLI/23092
Dept.: Moto Kranj Task: 07P/2023/DLI
Project No.: 70001186
Application date: 28.07.2023
Responsible: Mr. Lončarič
Report issue date: 02.08.2023
Test motive: Prototype tyres V1 (ECE homologation), Code: 70001186 (224654)

2. Tested sample: Tyre
Sort: M Ident. No.: 56560
Dimension 90/90B21 Name: Mitas Enduro Trail+ E-07+
Designation V2 Product: TWS India Approval E8 75R 001521
LI: 54 SS: H IP: 290 kPa PR LR: B Type TL/TT M+S M
Weight: 5.18 kg Measuring rim 2.15x21 DOT: 05J DOP: 2723

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

4. Test condition: Testing machine: HIP 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: 69 446 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.



Sample No.: 56560			Dimension:		90/90B21		Mitas Enduro Trail			Test:		RZ-M-003	
ID No.	Test stage	Date time dd.mm.yyyy hh:mm:ss	Step duration hhh: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 9:27:27	000:00:00	000:00:00			350			35,9			705
2	Cont	01.08.2023 9:48:13	000:20:00	000:20:00	85,1	137		344		36,1	28	13 083	8
3	Cont	01.08.2023 9:58:15	000:10:00	000:30:00	170,0	137		346		36,3	57	26 107	6
4	Cont	01.08.2023 10:08:17	000:10:00	000:40:00	180,0	137		347		36,4	87	39 829	6
5	Cont	01.08.2023 10:18:19	000:10:00	000:50:00	190,0	137		347		36,4	118	54 281	5
6	Cont	01.08.2023 10:28:21	000:10:00	001:00:00	200,0	137		348		36,4	151	69 446	5
7	Int.M	01.08.2023 10:37:32	000:09:11	001:00:00						36,2			
8	Int.O	01.08.2023 16:35:51	005:58:19	001:00:00			338			36,2			705
9	End	01.08.2023 16:35:53	000:00:03	001:00:00						36,2			

Tyre width immediately after end of test(mm): 90,5 - 90,7 - 90,3 - 90,8 - 90,8 - 90,5

Change of tyre circumference before test and 6h after test (%): 0,09

TEST REPORT No. 2023 - 4424

TTC Zlin, Šternberská 446, Louky, 763 02 Zlin

Testing Laboratory No.1253, accredited by Czech Accreditation Institute according 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/23092
Dept.: Moto Kranj Task: 07P/2023/DLI
Project No.: 70001186
Application date: 28.07.2023
Report issue date: 02.08.2023
Test motive: Prototype tyres V1 (ECE homologation). Code: 70001186 (224654)

2. Tested sample: Tyre
Sort: M Ident. No.: 56560
Dimension 90/90B21 Name: Mitas Enduro Trail+ E-07+
Designation V2 Product: TWS India Approval E8 75R 001521
LI: 54 SS: H IP: 290 kPa PR LR: B Type TL/TT M+S M
Weight: 5,18 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: 354,9 mm
Overall width of tyre at max. speed: 86,6 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.



tyre
radius
mm

Measurement of tyre profile

S1
S3

S2
S4

