



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 22nd March 2024

E8*75R00/20*1634*00

Yokohama TWS Slovenija 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:

170/60B17 MITAS ENDURO TRAIL XT ALL-TERRAIN 72T

with the approval number : **E8 75R - 001634**

date of inspection : **22nd March 2024**

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 – 001634

4.1.1. Tyre size designation:	170/60B17
4.1.2. Manufacturers name, tyre name:	MITAS, ENDURO TRAIL XT, All-Terrain
4.1.3. The category of use:	SNOW
4.1.4. Structure (diagonal, bias belted, radial):	BIAS BELTED
4.1.5. The speed category:	T
4.1.6. The load-capacity index of the tyre:	72
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: 165.7 mm Overall diameter: 644.0 mm
4.1.11. The rims on which the tyre can be mounted:	4.00x17, 4.25x17, 4.50x17, 5.00x17, 5.50x17
4.1.12. The measuring rim and test rim:	4.50x17
4.1.13. The test and measurement pressure	Test pressure: 350 kPa Measuring pressure: 280 kPa
4.1.14. Factor x	0.7
4.1.15. Max allowed speed for load-capacity defined in 4.1.6.	190 km/h

Manufacturer's name and address:

Tyre Manufacturer (1)

Yokohama TWS Slovenija d.o.o.
Škofjeloška cesta 6,
4000 Kranj, Slovenia

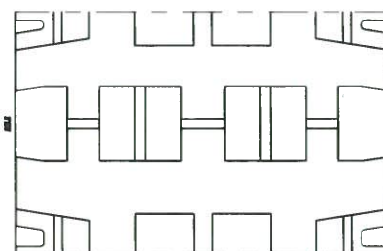
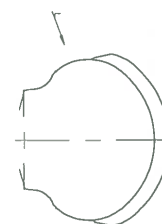
Tyre Manufacturer (2)

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

Tyre Manufacturer (3)

Yokohama TWS Czech Republic a.s.
Vavrečkova 7248
760 02 Zlín, Czech Republic





OVERALL (open) MITAS ENDURO TRAIL XT PATTERN



IC/ID: 46900080 DIČ/VAT: CZ46900080

1704631 302 17, 171 CHANDLER 1844, AT, APR, CEC, 015 JAMES	1704631 302 17, 171 CHANDLER 1844, AT, APR, CEC, 015 JAMES
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TEST REPORT No. 2024 - 1191

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: Yokohama TWS Slovenia, d.o.o. Requirement No.: MM/24113
Škofjeloška cesta 6 Dept.: 70001086 Task:
4000 Kranj Project No.: 6232511
Slovenia Application date: 22.02.2024
Responsible: ing. Macháčová Report issue date: 26.02.2024
Test motive: Prototype tyres V1 (ECE homologation)

2. Tested sample: Tyre Sort: M Ident. No.: 58009
Dimension 170/60B17 Name: Mitas Enduro Trail XT
Designation 1 Product: Yokohama TWS I Approval E8 75R-001634
LI: 72 SS: H IP: 290 kPa PR LR: B Type TL/TT M+S M
Weight: 7,36 kg Measuring rim 4,50x17 DOT: 05J DOP: 0324

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

4. Test condition: Testing machine: - Drum: - mm Ambient temperature: 25±5°C
Testing rim: MT4,50x17 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 24-1191.
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.



IGTT a.s.

Tyre Approval Department
Šternberská 446, Louky
763 02 Zlín, Czech Republic

ICAD: 46900080 DIČ/VAT: CZ46900080



Sample No.: 58009 Size: 170/60B17 Mitas Enduro Trail XT Method: KPB-M-003

Date: 24.02.2024

Dimension of approval mark:

diameter of circle: 11 mm

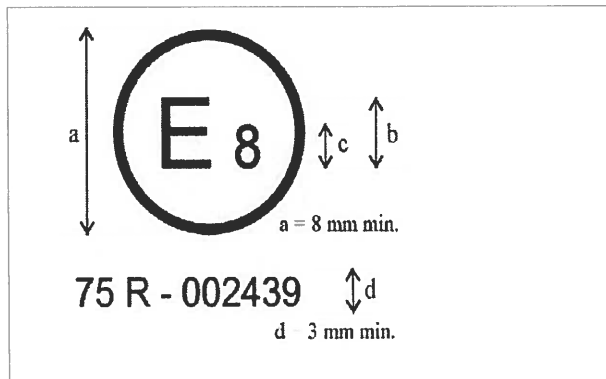
height of letter E: 6 mm

height of number: 4 mm

height of text 75R....: 4 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): Yes

Load capacity (mark): Yes

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. 2024 - 1193

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: Yokohama TWS Slovenia, d.o.o.
 Škofjeloška cesta 6
 4000 Kranj
 Slovenia
 Responsible: ing. Macháčová
 Requirement No.: MM/24113
 Dept.: 70001086 Task:
 Project No.: 6232511
 Application date: 22.02.2024
 Report issue date: 26.02.2024
 Test motive: Prototype tyres V1 (ECE homologation)

2. Tested sample: Tyre
 Sort: M Ident. No.: 58009
 Dimension 170/60B17 Name: Mitas Enduro Trail XT
 Designation 1 Product: Yokohama TWS I Approval E8 75R-001634
 LI: 72 SS: H IP: 290 kPa PR LR: B Type TL/TT M+S M
 Weight: 7,36 kg Measuring rim 4,50x17 DOT: 05J DOP: 0324

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: MT4,50x17 H2 Inflation: 280 kPa capped
 Load: daN Drum speed: km/h Slip: 0° Camber: 0°
 Cycle min/max: Track min/max: km

5. Results: Overall diameter: 644 mm
 Overall width: 165,7 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.



IGTT a.s.
 Tyre Approval Department
 Šternberská 446, Louky
 763 02 Zlín, Czech Republic
 IČ/D: 46900080 DIČ/VAT: CZ46900080

Annex to protocol No.: 24- 1193 Measurement of tyre dimensions

Printed: 26.02.2024

Sample No 58009 Tyre size: 170/60B17 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
25.02.2024	280	2 024	165	165,6	165,4	165,7	165,2	165,1	165,7	644

TEST REPORT No. 2024 - 1195

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: Yokohama TWS Slovenia, d.o.o.
 Škofjeloška cesta 6
 4000 Kranj
 Slovenia
 Responsible: ing. Macháčová
 Requirement No.: MM/24113
 Dept.: Moto Kranj Task:
 Project No.: 70001086
 Application date: 22.02.2024
 Report issue date: 05.03.2024
 Test motive: Prototype tyres V1 (ECE homologation)

2. Tested sample: Tyre
 Sort: M Ident. No.: 58009
 Dimension 170/60B17 Name: Mitas Enduro Trail XT
 Designation 1 Product: Yokohama TWS I Approval E8 75R-001634
 LI: 72 SS: H IP: 290 kPa PR LR: B Type TL/TT M+S M
 Weight: 7,36 kg Measuring rim 4,50x17 DOT: 05J DOP: 0324

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

4. Test condition: Testing machine: H2L Drum: 2000 mm Ambient temperature: 38±3°C
 Testing rim: MT4,50x17 H2 Inflation: 350 kPa capped
 Load: 226 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: 0,4 %
 Undergo cycles: 79 289 Undergo track: 160 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.: 58009		Dimension:		170/60B17		Mitas Enduro Trail				Test:		RZ-M-003	
ID No.	Test stage	Date time dd.mm.yyyy hh:mm:ss	Step duration 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	28.02.2024 15:07:04	000:00:00	000:00:00			350			38,3			645
2	Cont	28.02.2024 15:27:17	000:20:00	000:20:00	90,0	226		314		38,2	30	14 990	9
3	Cont	28.02.2024 15:37:19	000:10:00	000:30:00	180,0	226		317		38,2	60	29 922	6
4	Cont	28.02.2024 15:47:21	000:10:00	000:40:00	190,0	226		317		38,3	92	45 588	5
5	Cont	28.02.2024 15:57:23	000:10:00	000:50:00	200,1	226		318		38,3	125	62 050	5
6	Cont	28.02.2024 16:07:26	000:10:00	001:00:00	210,0	226		319		38,4	160	79 289	4
7	Int:M	28.02.2024 16:12:08	000:04:42	001:00:00						38,3			
8	Int:O	29.02.2024 6:04:36	013:52:29	001:00:00			340			38,3			647
9	End	29.02.2024 6:04:39	000:00:03	001:00:00						38,3			

Tyre width immediately after end of test(mm): 166,3 - 166,6 - 166,9 - 166,8 - 167,0 - 166,8

Change of tyre circumference before test and 6h after test (%): 0,35

TEST REPORT No. 2024-1196

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: Yokohama TWS Slovenia, d.o.o.
 Škofjeloška cesta 6
 4000 Kranj
 Slovenia
 Responsible: ing. Macháčová
 Requirement No.: MM/24113
 Dept.: Moto Kranj Task:
 Project No.: 70001086
 Application date: 22.02.2024
 Report issue date: 06.03.2024
 Test motive: Prototype tyres V1 (ECE homologation)

2. Tested sample: Tyre
 Sort: M Ident. No.: 58009
 Dimension 170/60B17 Name: Mitas Enduro Trail XT
 Designation 1 Product: Yokohama TWS I Approval E8 75R-001634
 LI: 72 SS: T IP: 290 kPa PR LR: B Type TL/TT M+S M
 Weight: 7,36 kg Measuring rim 4,50x17 DOT: 05J DOP: 0324

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: MT4,50x17 H2 Inflation: 290 kPa capped
 Load: daN Drum speed: 190 km/h Slip: 0° Camber: 0°
 Cycle min/max: Track min/max: km

5. Results: Max. centrifugal radius of tyre at max. speed: 327,3 mm
 Overall width of tyre at max. speed: 156,5 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, S3-190 km/h

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



Sample No.: 58009

Dimension:

170/60B17

Mitas Enduro Trail

Test:

MDN-M-003

tyre
radius
mm

Measurement of tyre profile

— S1 — S2
— S3 — S4