



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 18th March 2024

E8*75R00/20*1649*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:

140/80B17 MITAS ENDURO TRAIL XT DAKAR ALL-TERRAIN 69T

with the approval number : **E8 75R - 001649**

date of inspection : **18th 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 – 001649

4.1.1. Tyre size designation:	140/80B17
4.1.2. Manufacturers name, tyre name:	MITAS, ENDURO TRAIL XT DAKAR, 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:	69
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: 151.1 mm Overall diameter: 659.0 mm
4.1.11. The rims on which the tyre can be mounted:	2.75x17, 3.00x17, 3.50x17, 3.75x17
4.1.12. The measuring rim and test rim:	3.50x17
4.1.13. The test and measurement pressure	Test pressure: 350 kPa Measuring pressure: 280 kPa
4.1.14. Factor x	0.6
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





IC/ID: 46900080 DIČ/VAT: CZ46900080

[illegible]

TEST REPORT No. 2024 - 762

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/24088
 Dept.: Moto Kranj Task:
 Project No.: 70001209
 Application date: 2. 2. 2024
 Report issue date: 20. 2. 2024
 Test motive: Prototype tyres V1 (ECE homologation), Code: 70001209 (224424)

2. Tested sample: Tyre
 Sort: M Ident. No.: 57772
 Dimension 140/80B17 Name: Mitas Enduro Trail XT Dakar
 Designation V1 Product: Yokohama TWS I Approval -
 LI: 69 SS: T IP: 290 kPa PR LR: B Type TL/TT M+S M
 Weight: 7,66 kg Measuring rim 3,50x17 DOT: DOP: 4923

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

4. Test condition: Testing machine: - Drum: - mm Ambient temperature: 25±5°C
 Testing rim: 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 24-0762.
 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.: 57772 Size: 140/80B17 Mitas Enduro Trail XT Da Method: KPB-M-003

Date: 20. 2. 2024

Dimension of approval mark:

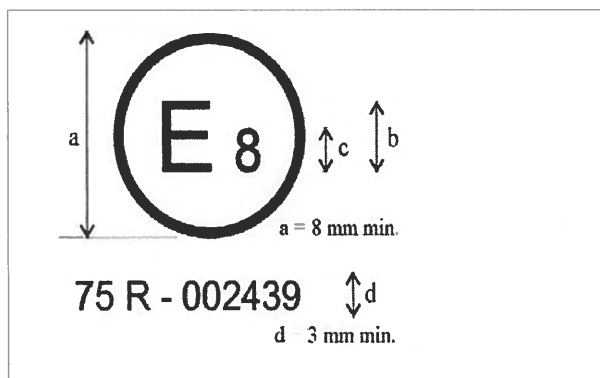
diameter of circle: 0 mm

height of letter E: 0 mm

height of number: 0 mm

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

Sidewall lettering:

b $\geq$ 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): Yes

Manuf.name or country of or Yes

TWI markings: Yes

DP (mark): No

NHS (mark): No

TEST REPORT No. 2024 - 764

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/24088
 Dept.: Moto Kranj Task:
 Project No.: 70001209
 Application date: 2. 2. 2024
 Report issue date: 21. 2. 2024
 Test motive: Prototype tyres V1 (ECE homologation), Code: 70001209 (224424)

2. Tested sample: Tyre
 Sort: M Ident. No.: 57772
 Dimension 140/80B17 Name: Mitas Enduro Trail XT Dakar
 Designation V1 Product: Yokohama TWS I Approval -
 LI: 69 SS: T IP: 290 kPa PR LR: B Type TL/TT M+S M
 Weight: 7,66 kg Measuring rim 3,50x17 DOT: DOP: 4923

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: MT3,50x17 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: 659 mm
 Overall width: 151,1 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 57772 Tyre size: 140/80B17 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
21. 2. 2024	280	2 070	150,7	151,1	150,6	150,7	150,8	150,9	151,1	659

TEST REPORT No. 2024 - 767

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/24088
	Škofjeloška cesta 6	Dept.:	Moto Kran Task:
	4000 Kranj	Project No.:	70001209
	Slovenia	Application date:	02.02.2024
	Responsible: ing. Macháčová	Report issue date:	16.02.2024
Test motive:		Prototype tyres V1 (ECE homologation), Code: 70001209 (224424)	

2. Tested sample:	Tyre	Sort:	M	Ident. No.:	57773						
	Dimension	140/80B17	Name:	Mitas Enduro Trail XT Dakar							
	Designation	V1	Product:	Yokohama TWS I	Approval -						
	LI:	69	SS:	T	IP:	290 kPa	PR	LR:	B	Type	TL/TT M+S M
	Weight:	7,84 kg	Measuring rim	3,50x17	DOT:		DOP:	4923			

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:	MT3,50x17 H2	Inflation:	350 kPa	capped				
	Load:	207 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: 0,3 %
	Undergo cycles: 69 364 Undergo track: 143 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
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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.
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Approved by: Laboratory quality manager Ing. Petr Husták, Ph.D.



Sample No.: 57773		Dimension:		140/80B17		Mitas Enduro Trail			Test:		RZ-M-003		
ID No.	Test stage	Date time dd.mm.rrrr 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	15.02.2024 7:05:23	000:00:00	000:00:00			350			36,3			658
2	Cont	15.02.2024 7:25:45	000:20:00	000:20:00	80,1	208		322		36,4	27	13 008	7
3	Cont	15.02.2024 7:35:47	000:10:00	000:30:00	160,0	208		325		36,8	53	25 982	5
4	Cont	15.02.2024 7:45:49	000:10:00	000:40:00	170,0	208		325		37,2	81	39 676	4
5	Cont	15.02.2024 7:55:51	000:10:00	000:50:00	180,1	208		326		37,4	111	54 149	3
6	Cont	15.02.2024 8:05:53	000:10:00	001:00:00	190,0	208		326		37,5	143	69 364	3
7	Int:M	15.02.2024 8:14:59	000:09:05	001:00:00						37,0			
8	Int:O	15.02.2024 14:27:54	006:12:56	001:00:00			345			37,0			660
9	End	15.02.2024 14:27:57	000:00:03	001:00:00						37,0			

Tyre width immediately after end of test(mm): 152,7 - 152,4 - 152,5 - 152,0 - 152,4 - 152,3

Change of tyre circumference before test and 6h after test (%): 0,29

TEST REPORT No. 2024 - 768

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/24088
Škofjeloška cesta 6 Dept.: Moto Kran Task:
4000 Kranj Project No.: 70001209
Slovenia Application date: 02.02.2024
Responsible: ing. Macháčová Report issue date: 27.02.2024
Test motive: Prototype tyres V1 (ECE homologation), Code: 70001209 (224424)

2. Tested sample: Tyre Sort: M Ident. No.: 57773
Dimension 140/80B17 Name: Mitas Enduro Trail XT Dakar
Designation V1 Product: Yokohama TWS I Approval -
LI: 69 SS: T IP: 290 kPa PR LR: B Type TL/TT M+S M
Weight: 7,84 kg Measuring rim 3,50x17 DOT: DOP: 4923

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: MT3,50x17 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: 334,8 mm
Overall width of tyre at max. speed: 141,6 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. 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.



