



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*1596*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:

110/80-19 MITAS ENDURO TRAIL XT+ 59T

with the approval number : **E8 75R - 001596**
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 – 001596

4.1.1. Tyre size designation:	110/80-19
4.1.2. Manufacturers name, tyre name:	MITAS, ENDURO TRAIL XT+
4.1.3. The category of use:	SNOW
4.1.4. Structure (diagonal, bias belted, radial):	DIAGONAL
4.1.5. The speed category:	T
4.1.6. The load-capacity index of the tyre:	59
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 SIDEWALL: 2 POLYESTER
4.1.10. The overall dimensions overall section width: overall diameter:	Overall section width: 107.1 mm Overall diameter: 669.0 mm
4.1.11. The rims on which the tyre can be mounted:	2.15-19, 2.50-19, 2.75-19, 3.00-19
4.1.12. The measuring rim and test rim:	2.50-19
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.	190 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.

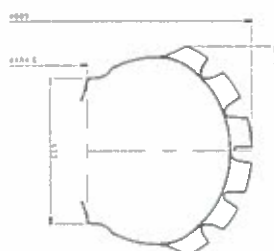
Tyre Manufacturer (2)

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

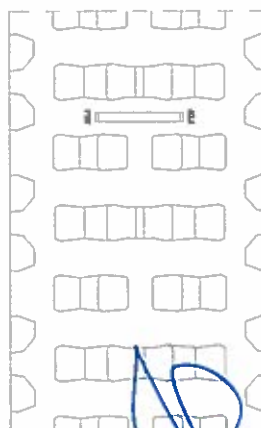
Tyre Manufacturer (3)

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





PRESS ACTION OF AQUATZED PEG



CONRAD (1999) NOTAS E RECURSOS PARA O PROJETO PATILHA

NAME	DATE	TIME	LOCATION	REMARKS
1. NAME	2. DATE	3. TIME	4. LOCATION	5. REMARKS
6. NAME	7. DATE	8. TIME	9. LOCATION	10. REMARKS
11. NAME	12. DATE	13. TIME	14. LOCATION	15. REMARKS
16. NAME	17. DATE	18. TIME	19. LOCATION	20. REMARKS
21. NAME	22. DATE	23. TIME	24. LOCATION	25. REMARKS
26. NAME	27. DATE	28. TIME	29. LOCATION	30. REMARKS
31. NAME	32. DATE	33. TIME	34. LOCATION	35. REMARKS
36. NAME	37. DATE	38. TIME	39. LOCATION	40. REMARKS
41. NAME	42. DATE	43. TIME	44. LOCATION	45. REMARKS
46. NAME	47. DATE	48. TIME	49. LOCATION	50. REMARKS
51. NAME	52. DATE	53. TIME	54. LOCATION	55. REMARKS
56. NAME	57. DATE	58. TIME	59. LOCATION	60. REMARKS
61. NAME	62. DATE	63. TIME	64. LOCATION	65. REMARKS
66. NAME	67. DATE	68. TIME	69. LOCATION	70. REMARKS
71. NAME	72. DATE	73. TIME	74. LOCATION	75. REMARKS
76. NAME	77. DATE	78. TIME	79. LOCATION	80. REMARKS
81. NAME	82. DATE	83. TIME	84. LOCATION	85. REMARKS
86. NAME	87. DATE	88. TIME	89. LOCATION	90. REMARKS
91. NAME	92. DATE	93. TIME	94. LOCATION	95. REMARKS
96. NAME	97. DATE	98. TIME	99. LOCATION	100. REMARKS

IGT a.s.
homologace pneumatik
Stěmberská 448, Louky
753 02 Zlín, Czech Republic
IČ/O: 46900080 DIČ/VAT: CZ46900080



TEST REPORT No. 2023 - 4020

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/23080
 Škofjeloška cesta 6 Dept.: Moto Kranj Task: 07D/2023/DLI
 4000 Kranj Project No.: 70001177
 Slovenia Application date: 11.07.2023
 Responsible: Mr. Lončarič Report issue date: 17.07.2023
 Test motive: Prototype tyres V1 (ECE homologation), Code: 70001177 (224456)

2. Tested sample: Tyre Sort: M Ident. No.: 56301
 Dimension 110/80-19 Name: Mitas Enduro Trail XT+
 Designation 1, V1 Product: TWS India Approval -
 LI: 59 SS: T IP: 290 kPa PR LR: B Type TL M+S MST
 Weight: 5.1 kg Measuring rim 2.50x19 DOT: DOP: 1723

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

4. Test condition: Testing machine: - Drum: - mm Ambient temperature: 25±5°C
 Testing rim: 2.50x19 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: 23-4020

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.: 56301 Size: 110/80-19 Mitas Enduro Trail XT+ Method: KPB-M-003

Date: 13.07.2023

Dimension of approval mark:

diameter of circle: 0 mm

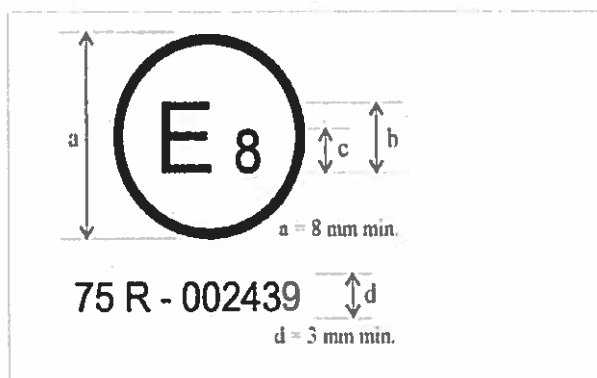
height of letter E: 0 mm

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): D

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. 2023 - 4022

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. Requirement No.: DLI/23080
 Škofjeloška cesta 6 Dept.: Moto Kran Task: 07D/2023/DLI
 4000 Kranj Project No.: 70001177
 Slovenia Application date: 11.07.2023
 Responsible: Mr. Lončarič Report issue date: 17.07.2023
 Test motive: Prototype tyres V1 (ECE homologation), Code: 70001177 (224456)

2. Tested sample: Tyre Sort: M Ident. No.: 56301
 Dimension 110/80-19 Name: Mitas Enduro Trail XT+
 Designation 1, V1 Product: TWS India Approval -
 LI: 59 SS: T IP: 290 kPa PR LR: B Type TL M+S MST
 Weight: 5.1 kg Measuring rim 2.50x19 DOT: DOP: 1723

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: 2.50x19 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: 669 mm
 Overall width: 107.1 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 the 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 56301 Tyre size: 110/80-19 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
14.07.2023	280	2 103	107.1	107	107	106.9	106.8	107	107.1	669



TEST REPORT No. 2023 - 4025

TTC Zlín, Šternberská 446, Louky, 763 02 Zlín

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/23080
Dept.: Moto Kranj Task: 07D/2023/DLI
Project No.: 70001177
Application date: 11.07.2023
Report issue date: 17.07.2023
Test motive: Prototype tyres V1 (ECE homologation), Code: 70001177 (224456)

2. Tested sample: Tyre
Sort: M Ident. No.: 56302
Dimension 110/80-19 Name: Mitas Enduro Trail XT+
Designation 2, V1 Product: TWS India Approval -
LI: 59 SS: T IP: 290 kPa PR LR: B Type TL M+S MST
Weight: 5,14 kg Measuring rim 2,50x19 DOT: DOP: 1723

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: 2,50x19 H2 Inflation: 350 kPa capped
Load: 155 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: 0,7 %
Undergo cycles: 68 614 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

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.: 56302		Dimension:		110/80-19		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	13.07.2023 16:59:49	000:00:00	000:00:00			350			37,7			671
2	Cont	13.07.2023 17:20:44	000:20:00	000:20:00	80,1	157		326		37,8	27	12 930	10
3	Cont	13.07.2023 17:30:46	000:10:00	000:30:00	160,0	157		329		37,9	53	25 777	7
4	Cont	13.07.2023 17:40:48	000:10:00	000:40:00	170,0	157		330		38,0	82	39 315	6
5	Cont	13.07.2023 17:50:50	000:10:00	000:50:00	180,1	157		330		38,1	112	53 602	5
6	Cont	13.07.2023 18:00:52	000:10:00	001:00:00	190,0	157		331		38,3	143	68 614	5
7	Int: M	13.07.2023 18:04:29	000:03:37	001:00:00						38,2			
8	Int: O	14.07.2023 6:56:33	012:52:04	001:00:00			319			38,2			675
9	End	14.07.2023 6:56:35	000:00:02	001:00:00						38,2			

Tyre width immediately after end of test(mm): 110,0 - 110,1 - 109,8 - 109,7 - 110,1 - 109,7

Change of tyre circumference before test and 6h after test (%): 0,66



TEST REPORT No. 2023 - 4026

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/23080
Dept.: Moto Kranj Task: 07D/2023/DLI
Project No.: 70001177
Application date: 11.07.2023
Responsible: Mr. Lončarič
Report issue date: 19.07.2023
Test motive: Prototype tyres V1 (ECE homologation), Code: 70001177 (224456)

2. Tested sample: Tyre
Sort: M Ident. No.: 56302
Dimension 110/80-19 Name: Mitas Enduro Trail XT+
Designation 2, V1 Product: TWS India Approval -
LI: 59 SS: T IP: 290 kPa PR LR: B Type TL M+S MST
Weight: 5,14 kg Measuring rim 2.50x19 DOT: DOP: 1723

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: 2.50x19 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: 338,8 mm
Overall width of tyre at max. speed: 103,7 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

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 Hůstík, Ph.D.



