



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 14th December 2023

E8*75R00/19*1539*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:

120/70B19 MITAS ENDURO TRAIL XT+ DAKAR ALL TERRAIN 60T

with the approval number : **E8 75R - 001539**
date of inspection : **14th December 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 – 001539

4.1.1. Tyre size designation:	120/70B19
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:	60
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 POLYAMIDE SIDEWALL: 2 POLYESTER
4.1.10. The overall dimensions overall section width: overall diameter:	Overall section width: 120.0 mm Overall diameter: 657.0 mm
4.1.11. The rims on which the tyre can be mounted:	2.75x19, 3.00x19, 3.50x19, 3.75x19
4.1.12. The measuring rim and test rim:	3.50x19
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)

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



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

IGTT

7 December 2023

Att. Ing. Tomáš Dudák
Director IGTT

Information letter

Yokohama TWS Slovenija d.o.o. informs that we have 3 manufacturing plants. The manufacturing process, raw materials, tire moulds, tread pattern and quality system of our company's products remains unchanged.

Based on this information letter, the approvals or extension of the approvals will be carried out.

All "E8" approved tires under our brand names are produced at plants, with the following addresses:

- 1) Yokohama TWS Slovenija d.o.o.

Škofjeloška cesta 6,
4000 Kranj Slovenia

- 2) SYAM Trelleborg Tires LLP

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

- 3) Yokohama TWS Czech Republic a.s.

Vavrečkova 7248
Zlín 760 02 Czech Republic

Damjan Grošelj
Director
Yokohama TWS Slovenija d.o.o.



Uroš Bajželj
Director
Yokohama TWS Slovenija d.o.o.

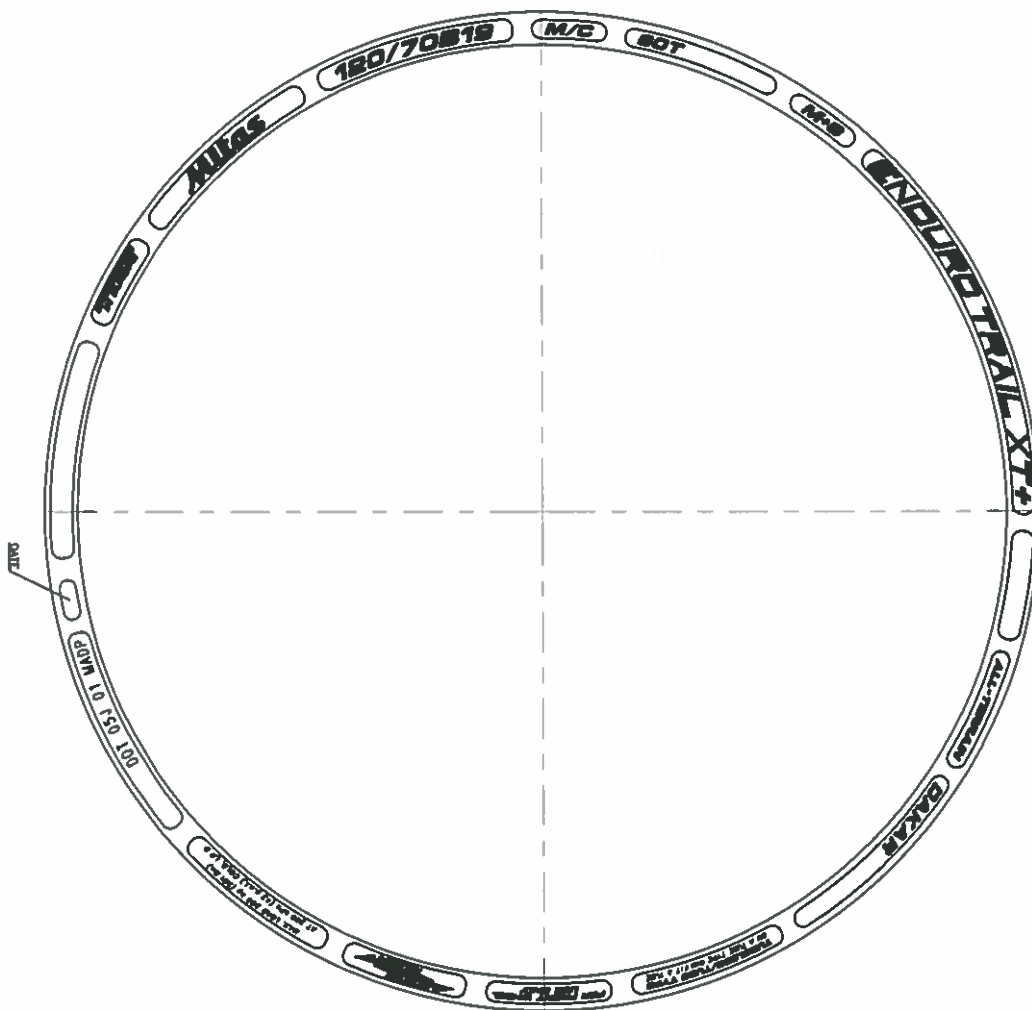
Yokohama TWS Slovenija d.o.o.
Družba za proizvodnjo in trženje pnevmatik
Škofjeloška cesta 6, 4000 Kranj, Slovenija

Yokohama TWS Slovenija, družba za proizvodnjo in trženje pnevmatik, d.o.o.
Škofjeloška cesta 6, 4000 Kranj, Slovenija
www.yokohama-tws.com

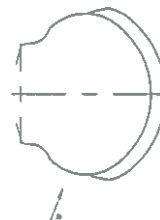


IGTT a.s.
Tyre Approval Department
Šternberská 446, Louky
763 02 Zlín, Czech Republic
IČO: 46900893 DIČ/VAT CZ: CZ059

IGTT



POSITION ON TIRE - BOTTOM HALF OF THE CIRCLE
(see 3)



IGTT a.s.	
Tyre Approval Department	
Sternberská 446, Louky	
763 02 Zlín, Czech Republic	
IC ID: 46900080 DIČ/VAT: CZ46900080	

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IGTT a.s.	
Tyre Approval Department	
Sternberská 446, Louky	
763 02 Zlín, Czech Republic	
IC ID: 46900080 DIČ/VAT: CZ46900080	

TEST REPORT No. 2023 - 5401

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 Czech Republic a.s. Requirement No.: MM/23393
 Švehlova 1900/3 Dept.: Moto Kran Task:
 106 25 Praha 10 Project No.: 70001178
 Česká republika Application date: 17.10.2023
 Responsible: ing. Macháčová Report issue date: 18.10.2023
 Test motive: Prototype tyres V1 (ECE homologation), Code: 70001178 (new)

2. Tested sample: Tyre Sort: M Ident. No.: 57024
 Dimension 120/70B19 Name: Mitas Enduro Trail XT+ Dakar
 Designation VI. Product: Yokohama TWS I Approval E8 75R-001539
 LI: 60 SS: T IP: 290 kPa PR LR: B Type TL/TT M+S M
 Weight: 6 kg Measuring rim 3,50x19 DOT: - DOP: 2923

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: 23-5401
 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 Hůsták, Ph.D.

Sample No.: 57024 Size: 120/70B19 Mitas Enduro Trail XT+ D Method: KPB-M-003

Date: 17.10.2023

Dimension of approval mark:

diameter of circle: 11 mm

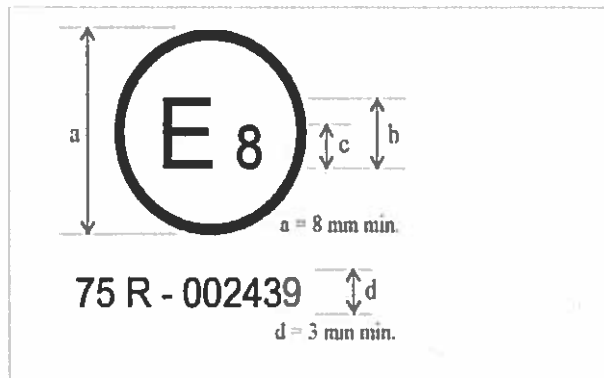
height of letter E: 6 mm

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. 2023-5403

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 Czech Republic a.s. Requirement No.: MM/23393
 Švehlova 1900/3 Dept.: Moto Kran Task:
 106 25 Praha 10 Project No.: 70001178
 Česká republika Application date: 17.10.2023
 Responsible: ing. Macháčová Report issue date: 18.10.2023
 Test motive: Prototype tyres VI (ECE homologation), Code: 70001178 (new)

2. Tested sample: Tyre Sort: M Ident. No.: 57024
 Dimension 120/70B19 Name: Mitas Enduro Trail XT+ Dakar
 Designation VI. Product: Yokohama TWS I Approval E8 75R-001539
 LI: 60 SS: T IP: 290 kPa PR LR: B Type TL/TT M+S M
 Weight: 6 kg Measuring rim 3,50x19 DOT: - DOP: 2923

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: MT3.50x19 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: 657 mm
 Overall width: 120,0 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 57024 Tyre size: 120/70B19 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
18.10.2023	280	2 064	119,6	119,7	119,4	119,9	120	119,5	120,0	657

TEST REPORT No. 2023 - 5406

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 Czech Republic a.s. Requirement No.: MM/23393
 Švehlova 1900/3 Dept.: Moto Kran Task:
 106 25 Praha 10 Project No.: 70001178
 Česká republika Application date: 17.10.2023
 Responsible: ing. Macháčová Report issue date: 20.10.2023
 Test motive: Prototype tyres VI (ECE homologation), Code: 70001178 (new)

2. Tested sample: Tyre Sort: M Ident. No.: 57025
 Dimension 120/70B19 Name: Mitas Enduro Trail XT+ Dakar
 Designation VI. Product: Yokohama TWS I Approval -
 LI: 60 SS: T IP: 290 kPa PR LR: B Type TL/TT M+S M
 Weight: 5,94 kg Measuring rim 3,50x19 DOT: - DOP: 2823

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: MT3.50x19 H2 Inflation: 350 kPa capped
 Load: 159 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: 69 450 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 Hůsták, Ph.D.

Sample No.: 57025		Dimension:		120/70B19		Mitas Enduro Trail			Test:		RZ-M-003		
ID No	Test stage	Date time dd.mm.mrrr 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	19.10.2023 13:16:58	000:00:00	000:00:00			350			36,7			660
2	Cont	19.10.2023 13:37:05	000:20:00	000:20:00	80,0	160		322		37,0	27	13 089	8
3	Cont	19.10.2023 13:47:07	000:10:00	000:30:00	160,0	160		325		37,1	53	26 096	5
4	Cont	19.10.2023 13:57:09	000:10:00	000:40:00	170,0	160		326		37,2	82	39 811	4
5	Cont	19.10.2023 14:07:12	000:10:00	000:50:00	180,0	160		327		37,2	111	54 268	3
6	Cont	19.10.2023 14:17:14	000:10:00	001:00:00	190,0	160		327		37,3	143	69 450	3
7	Int M	19.10.2023 14:30:10	000:12:56	001:00:00						37,0			
8	Int O	20.10.2023 6:55:47	016:25:37	001:00:00			344			37,0			665
9	End	20.10.2023 6:55:54	000:00:07	001:00:00						37,0			

Tyre width immediately after end of test(mm): 121,5 - 121,7 - 121,5 - 121,8 - 121,4 - 121,6

Change of tyre circumference before test and 6h after test (%): 0.68

TEST REPORT No. 2023 - 5407

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 Czech Republic a.s. Requirement No.: MM/23393
 Švehlova 1900/3 Dept.: Moto Kran Task:
 106 25 Praha 10 Project No.: 70001178
 Česká republika Application date: 17.10.2023
 Responsible: ing. Macháčová Report issue date: 24.10.2023
 Test motive: Prototype tyres V1 (ECE homologation), Code: 70001178 (new)

2. Tested sample: Tyre Sort: M Ident. No.: 57025
 Dimension 120/70B19 Name: Mitas Enduro Trail XT+ Dakar
 Designation V1. Product: Yokohama TWS I Approval -
 LI: 60 SS: T IP: 290 kPa PR LR: B Type TL/TT M+S M
 Weight: 5.94 kg Measuring rim 3,50x19 DOT: - DOP: 2823

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: MT3,50x19 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: 334,7 mm
 Overall width of tyre at max. speed: 115,5 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.

