



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 25th September 2023

E8*75R00/19*1564*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 XT+ DAKAR 54T

with the approval number : **E8 75R - 001564**
date of inspection : **25th September 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 – 001564

4.1.1. Tyre size designation:	90/90B21
4.1.2. Manufacturers name, tyre name:	MITAS, ENDURO TRAIL XT+ DAKAR
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:	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 POLYAMIDE SIDEWALL: 2 POLYESTER
4.1.10. The overall dimensions overall section width: overall diameter:	Overall section width: 99.2 mm Overall diameter: 710.0 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.	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.

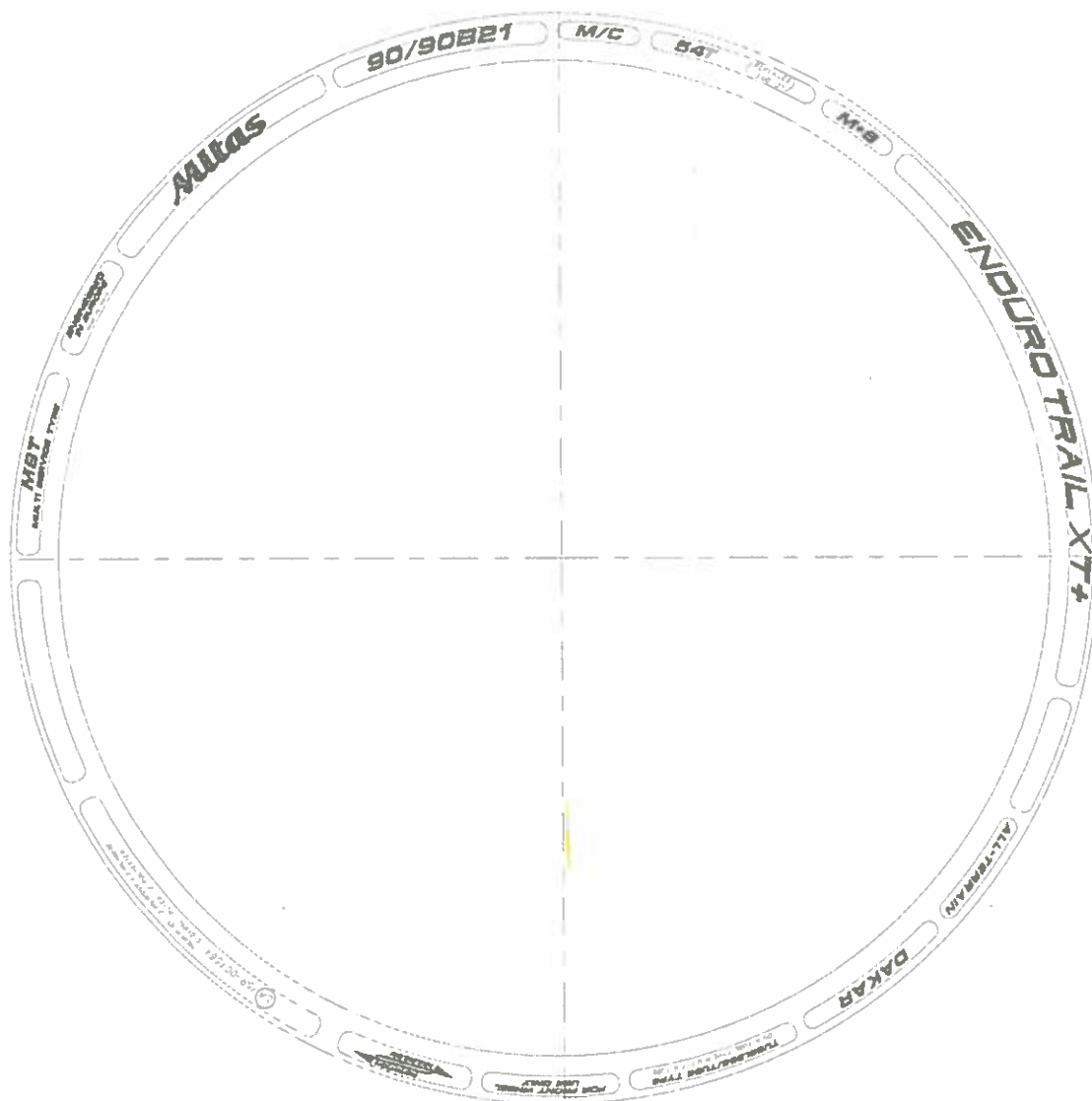
Tyre Manufacturer (2)

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

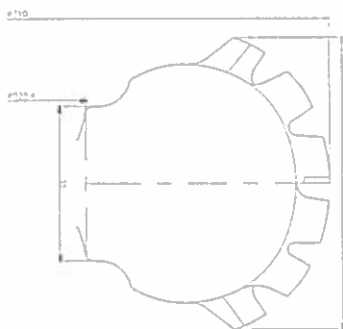
Tyre Manufacturer (3)

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

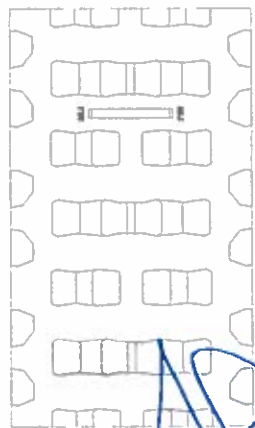




DO NOT CUT THE - TOP HALF OF THE WHEEL
(KIRK 1)



1:1



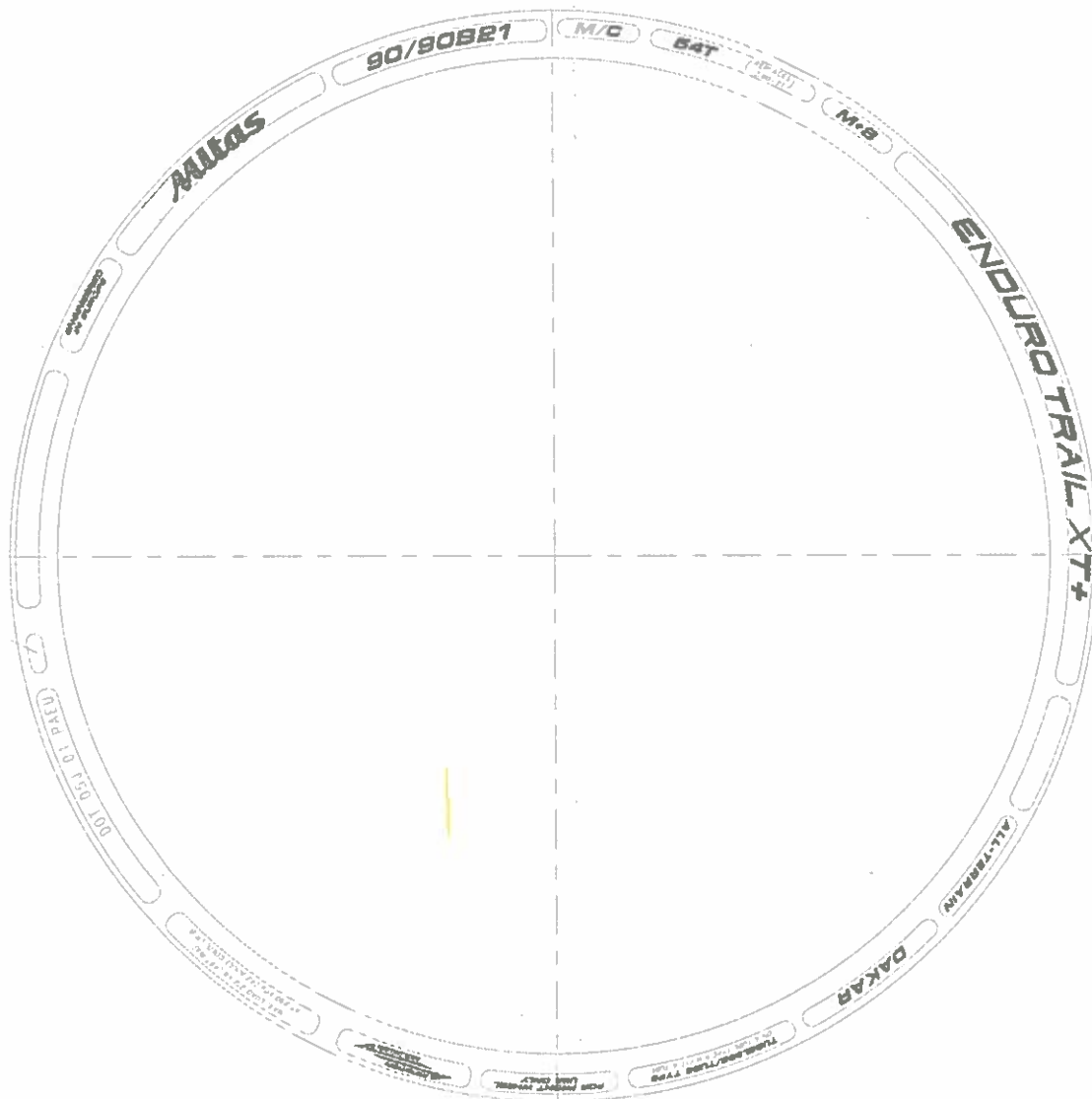
EXTERNAL (top) with ENDO (top) and 1:1 tread pattern

IGTT a.s.
homologace pneumatik
Stenberska 446, Louky
763 02 Zlín, Czech Republic
IČ/D: 469 00080 DIČ/VAT: CZ46900080

IGTT

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Model	Year	Size	Speed	Weight	Load	Pressure	Temp	Altitude	Notes
90/90B21	1990	185/60R15	180	180	180	180	180	180	
547	1990	185/60R15	180	180	180	180	180	180	
M/S	1990	185/60R15	180	180	180	180	180	180	
ENDURO TRAIL XT+	1990	185/60R15	180	180	180	180	180	180	
DAKAR	1990	185/60R15	180	180	180	180	180	180	
ALTYERAIN	1990	185/60R15	180	180	180	180	180	180	
MBT	1990	185/60R15	180	180	180	180	180	180	
AULAS	1990	185/60R15	180	180	180	180	180	180	



PROJEKCE NA TŘÍK. BODŮVÝKRES TĚLA KOLA
(vel. 1:1)



IGTT a.s.		IGTT	
homologace pneumatik		homologace pneumatik	
Sternberské 446, Louky		Sternberské 446, Louky	
763 02 Zlín, Czech Republic		763 02 Zlín, Czech Republic	
IČ/ID: 46990880 DIČ/VAT: CZ46900080		IČ/ID: 46990880 DIČ/VAT: CZ46900080	
23		23	

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IGTT a.s.
homologace pneumatik
Sternberské 446, Louky
763 02 Zlín, Czech Republic
IČ/ID: 46990880 DIČ/VAT: CZ46900080



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Trelleborg Wheel Systems Czech Republic a.s., Švehlova 1900/3, Záběhlce, 106 00 Praha

TRELLEBORG TEST REPORT No. 2023 - 2158



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/23044
Dept.: Moto Kranj Task: 04D/2023/DLI
Project No.: 70001030
Application date: 14.04.2023
Responsible: Mr. Lončarič
Report issue date: 26.04.2023
Test motive: Prototype tyres V2 (ECE homologation), Code: 70001030 (224644)

2. Tested sample: Tyre
Sort: M Ident. No.: 55393
Dimension 90/90B21 Name: Mitas Enduro Trail XT+ Dakar
Designation 1. V2 Product: TWS India Approval -
LI: 54 SS: T IP: 290kPa PR LR: B Type TL/TT M+S M
Weight: 5.38 kg Measuring rim 2.15x21 DOT: - DOP: 1123

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: 23-2158
Undergo cycles: Undergo track: km

6. Evaluation: Criterion defined in ECE-R75 and other standards
-
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%

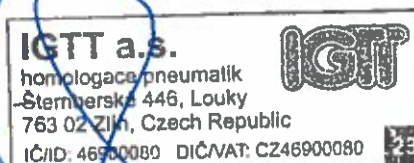
7. Appendix: 1. Tyre lettering inspection

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.

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



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Sample No.: 55393 Size: 90/90B21 Mitas Enduro Trail XT+ D Method: KPB-M-003

Date: 22.04.2023

Dimension of approval mark:

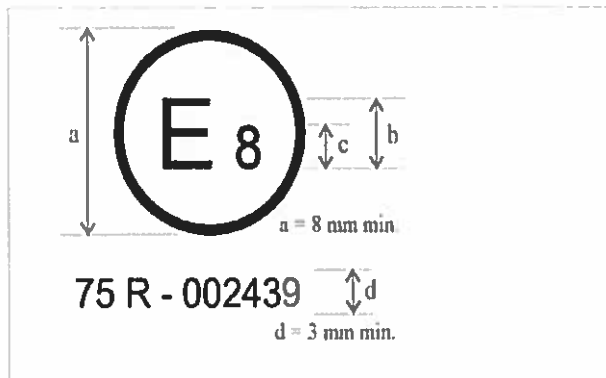
diameter of circle: 0 mm

height of letter E: 0 mm

height of number: 0 mm

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

Sidewall lettering:

b $\geq$ 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

**TRELLEBORG TEST REPORT No. 2023 - 2160**

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/23044
 Škofjeloška cesta 6 Dept.: Moto Kran Task: 04D/2023/DLI
 4000 Kranj Project No.: 70001030
 Slovenia Application date: 14.04.2023
 Responsible: Mr. Lončarič Report issue date: 26.04.2023
 Test motive: Prototype tyres V2 (ECE homologation), Code: 70001030 (224644)

2. Tested sample: Tyre Sort: M Ident. No.: 55393
 Dimension 90/90B21 Name: Mitas Enduro Trail XT+ Dakar
 Designation 1. V2 Product: TWS India Approval -
 LI: 54 SS: T IP: 290 kPa PR LR: B Type TL/TT M+S M
 Weight: 5.38 kg Measuring rim 2.15x21 DOT: - DOP: 1123

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: 710 mm
 Overall width: 99.2 mm
 Undergo cycles: Undergo track: km

6. Evaluation: Criterion defined in ECE-R75
 Udiam: 0,6 mm Uwidth: 0,6 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.

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



Sample No 55393 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
23.04.2023	280	2 231	98,9	98,7	98,8	99,2	99	99,1	99,2	710



Trelleborg Wheel Systems Czech Republic a.s., Švehlova 1900/3, Záběhlice, 106 00 Praha

TRELLEBORG

TEST REPORT No. 2023 - 2163



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
Responsible: Mr. Lončarič
Test motive: Prototype tyres V2 (ECE homologation), Code: 70001030 (224644)

Requirement No.: DLI/23044
Dept.: Moto Kranj Task: 04D/2023/DLI
Project No.: 70001030
Application date: 14.04.2023
Report issue date: 28.04.2023

2. Tested sample: Tyre
Sort: M Ident. No.: 55394
Dimension 90/90B21 Name: Mitas Enduro Trail XT+ Dakar
Designation 2, V2 Product: TWS India Approval -
LI: 54 SS: T IP: 290 kPa PR LR: B Type TL/TT M+S M
Weight: 5,26 kg Measuring rim 2,15x21 DOT: - DOP: 1123

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: 2,15x21 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: 0,4 %
Undergo cycles: 64 705 Undergo track: 143 km

6. Evaluation: Criterion no defects and circumf.difference before and 6h after test max. ±3,5%
-

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.

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



Sample No.: 55394		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	27.04.2023 16:24:31	000:00:00	000:00:00			350			36,3			713
2	Cont	27.04.2023 16:44:38	000:20:00	000:20:00	80,1	135		348		36,5	27	12 156	8
3	Cont	27.04.2023 16:54:41	000:10:00	000:30:00	160,0	135		350		37,0	53	24 272	6
4	Cont	27.04.2023 17:04:43	000:10:00	000:40:00	170,0	135		351		37,0	82	37 054	5
5	Cont	27.04.2023 17:14:45	000:10:00	000:50:00	180,1	135		352		37,1	111	50 540	5
6	Cont	27.04.2023 17:24:47	000:10:00	001:00:00	190,0	135		352		37,2	143	64 705	4
7	Int M	27.04.2023 17:31:04	000:06:17	001:00:00						37,0			
8	Int O	28.04.2023 9:45:08	016:14:05	001:00:00			325			37,0			715
9	End	28.04.2023 9:45:10	000:00:01	001:00:00						37,0			

Tyre width immediately after end of test(mm): 99,9 - 100,2 - 99,9 - 100,0 - 99,9 - 100,1

Change of tyre circumference before test and 6h after test (%): 0,36

TEST REPORT No. 2023 - 2164

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.o. Requirement No.: DLI/23044
Škofjeloška cesta 6 Dept.: Moto Kran Task: 04D/2023/DLI
4000 Kranj Project No.: 70001030
Slovenia Application date: 14.04.2023
Responsible: Mr. Lončarič Report issue date: 04.05.2023
Test motive: Prototype tyres V2 (ECE homologation), Code: 70001030 (224644)

2. Tested sample: Tyre Sort: M Ident. No.: 55394
Dimension 90/90B21 Name: Mitas Enduro Trail XT+ Dakar
Designation 2, V2 Product: TWS India Approval -
LI: 54 SS: T IP: 290kPa PR LR: B Type TL/TT M+S M
Weight: 5.26 kg Measuring rim 2.15x21 DOT: - DOP: 1123

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: 290kPa 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: 359.0 mm
Overall width of tyre at max. speed: 94.7 mm
Undergo cycles: Undergo track: km

6. Evaluation: Criterion profil doesn't exceed limit curve
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 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.

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

