



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 28th June 2023

E8*75R00/19*1490*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 E-07 DAKAR 54H

with the approval number : **E8 75R - 001490**

date of inspection : **28th June 2023**

inspector's name : **Václav Hořelka**

Sincerely yours,



Václav Hořelka
Head Of Tyre Approval Department
Head Of Inspection Body IGTT

Ministerstvo dopravy České republiky
Ministry of Transport of the Czech Republic
Nábřeží L. Svobody 12, 110 15 Praha 1, Czech Republic

OSVĚDČENÍ o ⁽¹⁾:

COMMUNICATION concerning ⁽¹⁾:



UDĚLENÍ HOMOLOGACE

ROZŠÍŘENÍ HOMOLOGACE
ZAMÍTNUTÍ HOMOLOGACE
ODEBRÁNÍ HOMOLOGACE
DEFINITIVNÍM UKONČENÍ VÝROBY

APPROVAL GRANTED

APPROVAL EXTENDED
APPROVAL REFUSED
APPROVAL WITHDRAWN
PRODUCTION DEFINITELY DISCONTINUED

typu pneumatiky pro motocykly a skútry podle Předpisu č. 75
of a type of pneumatic tyre for motorcycles and mopeds pursuant to Regulation No. 75

Homologace č.:

Approval No.: **E8*75R00/19*1490*00**

Rozšíření č.:

Extension No.: **N/A**

- | | | | |
|------|---|---|--|
| 1. | Jméno a adresa výrobce
Manufacturer's name and address: | : | Viz příloha č. 1 tohoto osvědčení
See Annex 1 of this approval certificate |
| 2. | Označení typu pneumatiky ⁽²⁾
Tyre type designation ⁽²⁾ | : | |
| 2.1 | Značka(y) / obchodní známka(y)
Brand name(s) / trademark(s) | : | MITAS |
| 2.2 | Obchodní popis / obchodní jméno
Trade description(s) / commercial name(s) | : | ENDURO TRAIL E-07 DAKAR |
| 3. | Název a adresa zástupce výrobce
(je-li potřebné)
If applicable, name and address of
manufacturer's representative | : | N/A |
| 4. | Souhrnný popis
Sumarized description | : | |
| 4.1. | Označení rozměru pláště
Tyre size designation | : | 90/90B21 |
| 4.2. | Kategorie užití
Category of use | : | normální / zimní / moped / terénní / speciální ⁽¹⁾
normal / snow / moped / all terrain (AT) / special ⁽¹⁾ |
| 4.3. | Konstrukce
Structure | : | diagonální / radiální / smíšená ⁽¹⁾
diagonal / radial / bias belted ⁽¹⁾ |
| 4.4. | Kategorie rychlosti
Speed category symbol | : | H |
| 4.5. | Indexy nosnosti
Load capacity index | : | 54 |
| 4.6. | U pneu All Terrain (AT) symbol určující
referenční huštění
For All Terrain (AT) tyres, the symbol
identifying the reference pressure | : | N/A |

5. Technický servis a případně zkušební laboratoř schválená pro účely schvalování nebo pro ověřování shodnosti
Technical service and where applicable, test laboratory additional approved purposes of approval or of verification of conformity
- 8/E:
IGTT a.s. - Institut gumárenské technologie a testování, a.s.
Rubber Technology and Testing Institute, Comp.
Šternberská 446, Louky,
763 02 ZLÍN,
CZECH REPUBLIC
6. Datum protokolu, vydaného touto zkušebnou
Date of report issued by that service
- 20.01.2023, 18.01.2023
20.01.2023, 20.01.2023
7. Číslo protokolu, vydaného touto zkušebnou
Number of report issued by that service
- 2023-420, 2023-418
2023-423, 2023-424
8. Důvod pro rozšíření (je-li potřebné)
Reason (s) of extension (if applicable)
- N/A
9. Poznámky
Any remarks
- N/A
10. Místo
Place
- Praha
Prague
11. Datum
Date
12. Podpis
Signature
- Elektronický podpis - 28.6.2023
Certifikát autora podpisu :
Jméno : Ing. Bc. Ivan Novák
Vydal : PostSignum Qualified CA 4
Platnost do : 25.2.2028 11:49:25+0000+01:00
13. K osvědčení je přiložen seznam dokumentů obsažených v homologačních podkladech uložených u homologačního orgánu, který udělil homologaci, a které lze obdržet na vyžádání.
Annexed to this communication is a list of documents in the approval file deposited at the Approval Authority which has considered this approval and which can be obtained upon request.
- Seznam dokumentů
List of documents
- Žádost o udělení homologace / Application for approval
 - Výkresy bočnice a běhounu pláště / Drawing of the tyre sidewalls and tread
 - Kótovaný výkres příčného řezu pláště / Dimensioned drawing of tyre cross – section
 - Protokol o zkoušce dle bodu 7. / The test report as mentioned in item 7.

- (1) Nehodící se škrtněte
Delete that which does not apply
- (2) Seznam značek / ochranných známek nebo obchodních popisů / obchodních názvů může být přílohou k tomuto osvědčení
A list of brand name(s)/trademark(s) or trade description(s)/commercial name(s) may be annexed to this communication

E8 75 R 001490

Příloha č. 1 - Jméno a adresa výrobce
Annex 1 – 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, INDIA

Tyre Manufacturer (2)

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

Tyre Manufacturer (3)

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

**APPLICATION FOR APPROVAL OF A TYPE OF PNEUMATIC TYRE
FOR MOTORCYCLES AND MOPEDS ACCORDING TO ECE REGULATION No. 75**

E8 75R – 001490

4.1.1. Tyre size designation:	90/90B21
4.1.2. Manufacturers name, tyre name:	MITAS, ENDURO TRAIL E-07 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:	H
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: 92.1 mm Overall diameter: 698.0 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.	210 km/h

Manufacturer's name and address:

Tyre Manufacturer (1)

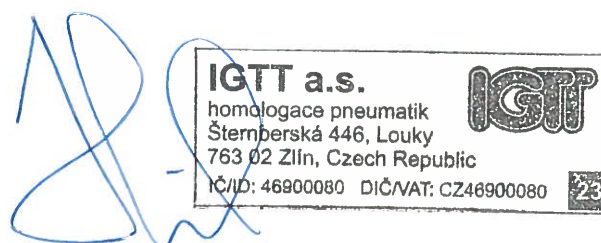
SYAM Trelleborg Tires LLP
Plot No. 521, Sayakha Industrial Estate,
Near Village Juned, Taluka Vagra,
Dist. Bharuch, Gujarat, Pin-392140.

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



**TRELLEBORG****TEST REPORT No. 2023 - 420**

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 V1 (ECE homologation), 70001014 (224637)

Requirement No.: DLI/23015
 Dept.: Moto Kran Task: 01O/2023/DLI
 Project No.: 70001014
 Application date: 16.01.2023
 Report issue date: 20.01.2023

2. Tested sample: Tyre
 Sort: M Ident. No.: 54535
 Dimension 90/90B21 Name: Mitas Enduro Trail E-07 Dakar
 Designation V1, 224637 Product: TWS India Approval -
 LI: 54 SS: H IP: 290 kPa PR LR: B Type TL/TT M+S M
 Weight: 5,14 kg Measuring rim 2,15x21 DOT: - DOP: 4222

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: 698 mm (M+S limits: from 690 to 714 mm)
 (MST limits: from 695 to 714 mm)
 Overall width: 92,1 mm (M+S/ MST limit: 99/ 113 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 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.

Approved by: Laboratory quality manager RNDr. Petr Sliž



Sample No 54535 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
19.01.2023	280	2 193	91,1	91,8	92	92,1	91,8	91,5	92,1	698

**TRELLEBORG TEST REPORT No. 2023 - 418**

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 V1 (ECE homologation), 70001014 (224637)

Requirement No.: DLI/23015
 Dept.: Moto Kran Task: 01O/2023/DLI
 Project No.: 70001014
 Application date: 16.01.2023
 Report issue date: 18.01.2023

2. Tested sample: Tyre Sort: M Ident. No.: 54535
 Dimension 90/90B21 Name: Mitas Enduro Trail E-07 Dakar
 Designation V1, 224637 Product: TWS India Approval -
 LI: 54 SS: H IP: 290 kPa PR LR: B Type TL/TT M+S M
 Weight: 5,14 kg Measuring rim 2,15x21 DOT: - DOP: 4222

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: 290 kPa
 Load: daN Drum speed: km/h Slip: 0° Camber: 0°
 Cycle min/max: Track min/max: km

5. Results: See appendix of protocol: 23-0418
 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 RNDr. Petr Sliž



Sample No.: 54535 Size: 90/90B21 Mitas Enduro Trail E-07 Method: KPB-M-003

Date: 18.01.2023

Dimension of approval mark:

diameter of circle: 0 mm

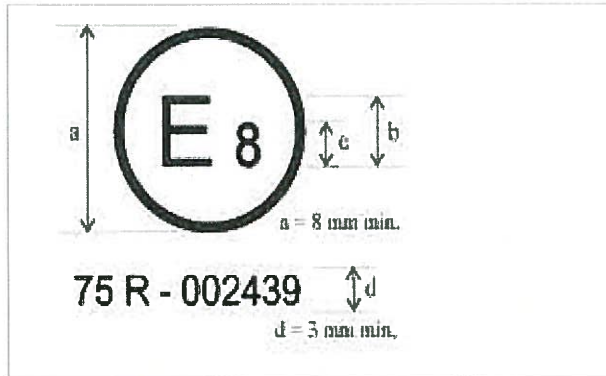
height of letter E: 0 mm

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): 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



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

TRELLEBORG TEST REPORT No. 2023 - 423



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 V1 (ECE homologation), 70001014 (224637)

Requirement No.: DLI/23015
Dept.: Moto Kranj Task: 01O/2023/DLI
Project No.: 70001014
Application date: 16.01.2023
Report issue date: 20.01.2023

2. Tested sample: Tyre
Sort: M Ident. No.: 54536
Dimension 90/90B21 Name: Mitas Enduro Trail E-07 Dakar
Designation V1, 224637 Product: TWS India Approval -
LI: 54 SS: H IP: 290 kPa PR LR: B Type TL/TT M+S M
Weight: 5,1 kg Measuring rim 2,15x21 DOT: - DOP: 4522

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: 73 526 Undergo track: 160 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 RNDr. Petr Sliž

[Signature]



Sample No.: 54536		Dimension:		90/90B21		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	19.01.2023 8:21:14	000:00:00	000:00:00			350			36,0			700
2	Cont	19.01.2023 8:42:00	000:20:00	000:20:00	90,0	133		342		36,3	30	13 928	8
3	Cont	19.01.2023 8:52:03	000:10:00	000:30:00	180,0	133		345		36,8	60	27 791	5
4	Cont	19.01.2023 9:02:05	000:10:00	000:40:00	190,0	133		346		37,0	92	42 318	4
5	Cont	19.01.2023 9:12:07	000:10:00	000:50:00	200,1	133		346		37,2	125	57 578	4
6	Cont	19.01.2023 9:22:09	000:10:00	001:00:00	210,0	133		347		37,3	160	73 526	3
7	Int:M	19.01.2023 9:31:32	000:09:23	001:00:00						36,9			
8	Int:O	19.01.2023 15:47:10	006:15:37	001:00:00			328			36,9			703
9	End	19.01.2023 15:47:16	000:00:06	001:00:00						36,9			

Tyre width immediately after end of test(mm): 93,1 - 93,0 - 93,0 - 93,0 - 92,9 - 92,8

Change of tyre circumference before test and 6h after test (%): 0,41

Cont=Continuation, Int=Interruption: M-compulsory check, O-operator check, K-radius low limit, H-inflation low limit, T-surface temperature limit, S-tread or sidewall separation, C-cycles limit, D-distance limit, Ĉ-time limit, P-machine problem, A-current increase

**TRELLEBORG TEST REPORT No. 2023 - 424**

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 V1 (ECE homologation), 70001014 (224637)

Requirement No.: DLI/23015
 Dept.: Moto Kranj Task: 01O/2023/DLI
 Project No.: 70001014
 Application date: 16.01.2023
 Report issue date: 20.01.2023

2. Tested sample: Tyre
 Sort: M Ident. No.: 54536
 Dimension 90/90B21 Name: Mitas Enduro Trail E-07 Dakar
 Designation V1, 224637 Product: TWS India Approval -
 LI: 54 SS: H IP: 290 kPa PR LR: B Type TL/TT M+S M
 Weight: 5,1 kg Measuring rim 2,15x21 DOT: - DOP: 4522

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: 290 kPa capped
 Load: daN Drum speed: 210 km/h Slip: 0° Camber: 0°
 Cycle min/max: Track min/max: km

5. Results: Max. centrifugal radius of tyre at max. speed: 306 mm (limit: 308 mm)
 Overall width of tyre at max. speed: 94 mm (M+S limit: 102 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, S3-0 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 RNDr. Petr Slíž



Sample No.: 54536

Dimension:

90/90B21

Mitas Enduro Trail

Test:

MDN-M-003

tyre
radius
mm

Measurement of tyre profile

— S1 — S2
— S3 — S4