



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



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

E8*75R00/19*1428*00

Zlín 22nd July 2022

Re

**Communication concerning the approval and notification of approval number-
inspection report**

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 :

90/90-21 MITAS E-07+ ENDURO TRAIL+ 54T

with the approval number : **E8*75R00/19*1428*00**
date of inspection: **22nd July 2022**

Sincerely yours



Václav Hořelka
Head Of Tyre Approval Department
Head Of Inspection Body HS440

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

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APPROVAL WITHDRAWN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*1428*00**

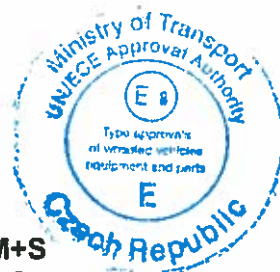
Rozšíření č.:

Extension No.: -

- | | | | |
|------|---|---|--|
| 1. | Jméno a adresa výrobce | : | |
| | Manufacturer's name and address: | : | |
| | Trelleborg Wheel Systems Czech Republic a.s. | | Trelleborg Wheel Systems Moto, d.o.o. |
| | výrobní úsek Zlín, ulice Šedesátá č.p. 5638 | | Škofjeloška cesta 6 |
| | 762 02 Zlín | | 4000 Kranj |
| | CZECH REPUBLIC | | SLOVENIA |
| 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) | : | E-07+ ENDURO TRAIL+ |
| 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 | : | 90/90-21 |
| 4.2. | Kategorie užití | : | normální/zimní/moped/terénní/speciální ⁽¹⁾ |
| | Category of use | : | normal/snow/moped/all-terrain (AT)/special ⁽¹⁾ |
| 4.3. | Konstrukce | : | diagonální / radiální / smíšená ⁽¹⁾ |
| | Structure | : | diagonal / radial / bias belted ⁽¹⁾ |
| 4.4. | Kategorie rychlosti | : | |
| | Speed category symbol | : | T |
| 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. | Homologační zkušebna a případně zkušební laboratoř schválená pro účely homologace 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
Rubber Technology and Testing Institute, Šternberská 446, Louky,
763 02 ZLÍN, CZECH REPUBLIC |
| 6. | Datum protokolu, vydaného touto zkušebnou
Date of report issued by that service | 13.06.2022, 14.06.2022
16.06.2022, 15.06.2022 |
| 7. | Číslo protokolu, vydaného touto zkušebnou
Number of report issued by that service | 2022-2625, 2022-2626
2022-2628, 2022-2629 |
| 8. | Důvod pro rozšíření (je-li potřebné)
Reason (s) of extension (if applicable) | - |
| 9. | Poznámky
Any remarks | Dodatečné označení M+S
Additional marking M+S |
| 10. | Místo
Place | Praha
Prague |
| 11. | Datum
Date | 22.07.2022 |
| 12. | Podpis
Signature | 
Václav Hořelka |



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

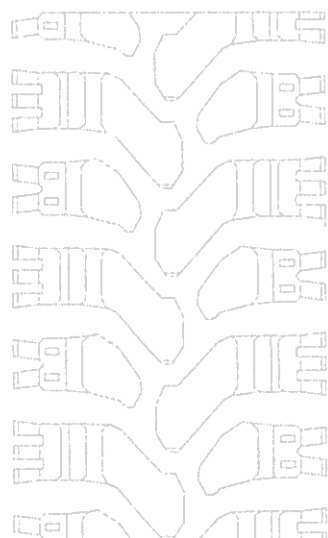
může být přílohou k tomuto osvědčení

A list of brand name(s)/trademark(s) or trade description(s)/commercial name(s) may be annexed to this communication

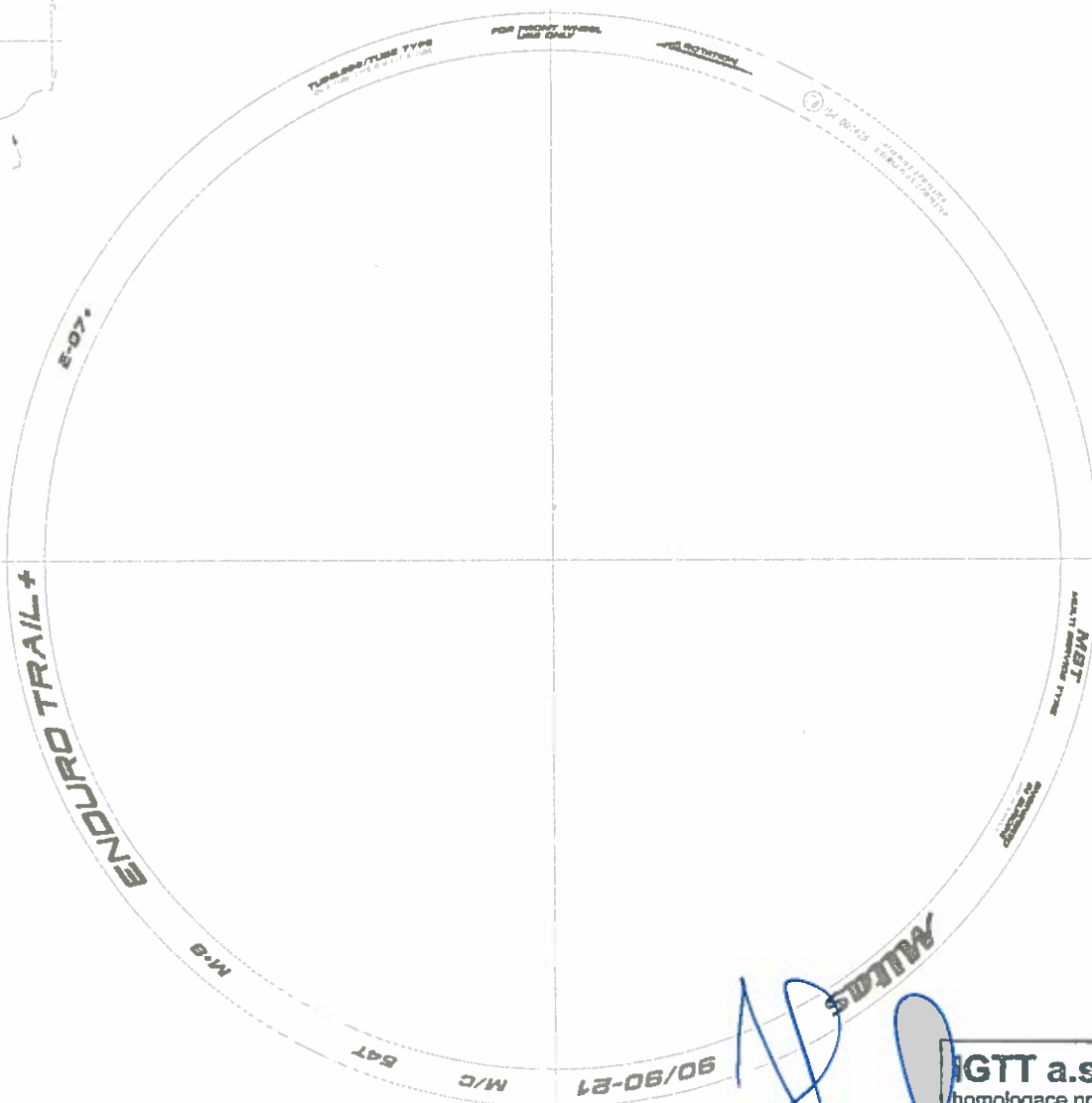
**APPLICATION FOR APPROVAL OF A TYPE OF PNEUMATIC TYRE
FOR MOTOR CYCLES AND MOPEDS ACCORDING TO ECE REGULATION No. 75**

4.1.1. Tyre size designation:	90/90-21
4.1.2. Manufacturers name, tyre name:	MITAS, ENDURO TRAIL+
4.1.3. The category of use:	M+S, MST
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:	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 motor cycle derivatives:	TREAD: 2 POLYESTER SIDEWALL: 2 POLYESTER
4.1.10. The overall dimensions overall section width: overall diameter:	Overall section width: 91.1 mm Overall diameter: 695.0 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	0.6
4.1.15. Max allowed speed for load-capacity defined in 4.1.6.	190 km/h



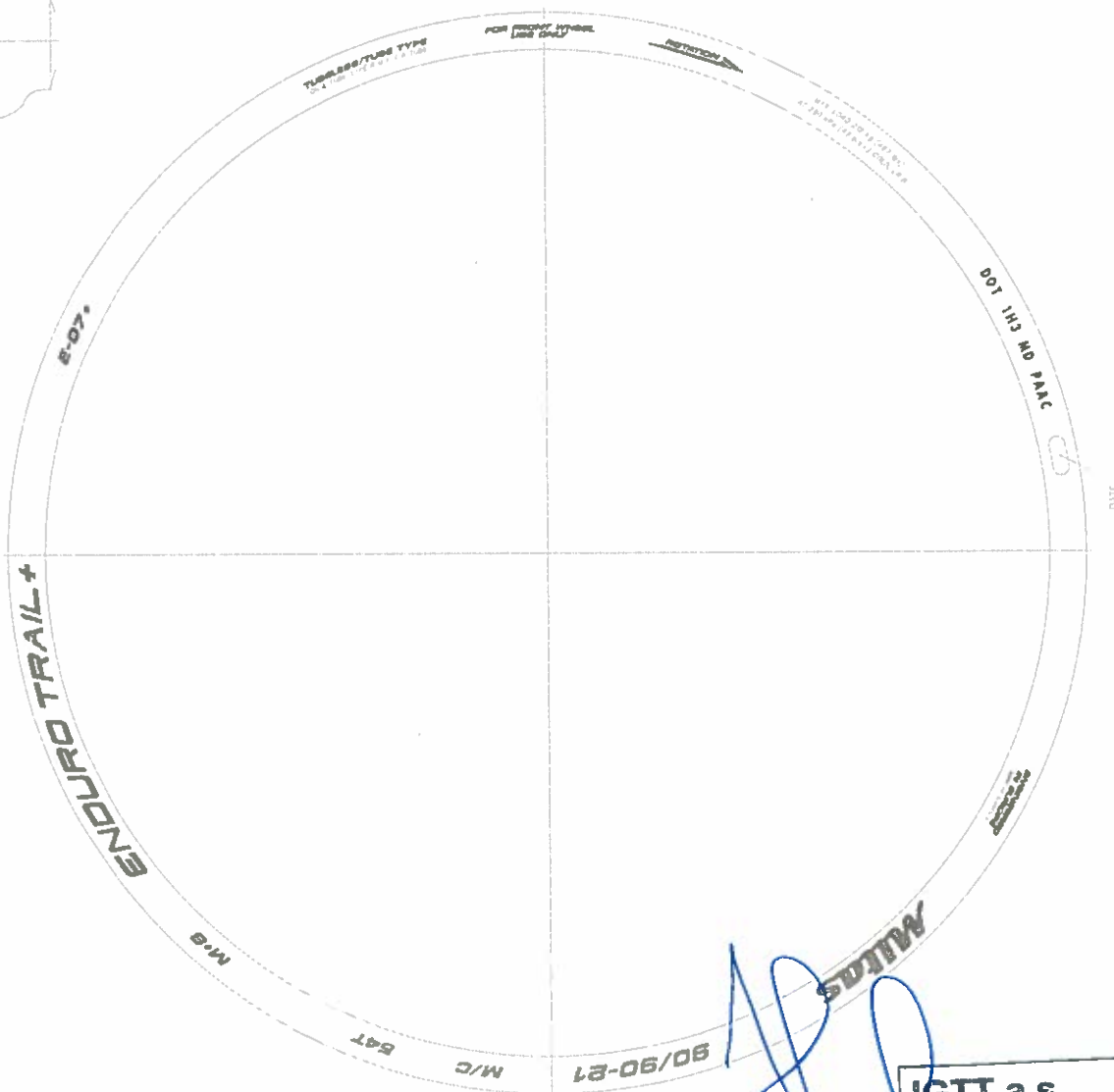


IN [AOL (year)] LET AS [COUNT] TRIM 4 TRIM 4.2 TRIM 7 (304



IGTT a.s.
homologace pneumatik
Šternberská 446, Louky
763 02 Zlín, Czech Republic
IČ/ID: 46900080 DIČ/VAT: CZ46900080





IGTT a.s.

homologace pneumatik
Štemberská 446, Louky
763 02 Zlín, Czech Republic
IČ/ID: 46900080 DIČ/VAT: CZ4



DATE	10/10/1990	TIME	14:25	LOCATION	10/10/1990
NAME	JOHN J. BROWN	AGE	35	SEX	M
DOB	08/10/55	POB	NEW YORK, NY	SSN	123-45-6789
MOBILE	212-555-1234	HOME	212-555-5678	WORK	212-555-9012
VEHICLE	1988 FORD Taurus	PLATE	NY 12345	INSURANCE	ABC Insurance Co.
EMPLOYER	ABC Corporation	ADDRESS	123 Main St, New York, NY 10001	CITY	NEW YORK
STATE	NY	COUNTRY	USA	ZIP	10001
RELATIONSHIP	Self	STATUS	Married	CHILDREN	2
EDUCATION	High School	DEGREE	None	SKILLS	None
REMARKS	Subject is a male, 35 years old, 5'10", 170 lbs, brown hair, blue eyes. No tattoos or scars. Last seen on 10/10/1990 at 14:25.				

**TRELLEBORG****TEST REPORT No. 2022 - 2625**

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.: BG/22044
 Škofjeloška cesta 6 Dept.: Moto Kran Task: 05S/2022/BG
 4000 Kranj Project No.: 05S/2022/BG
 Slovenia Application date: 02.06.2022
 Responsible: Mr. Gubanc Report issue date: 13.06.2022
 Test motive: Prototype tyres P-19/22 (Postinf.) (ECE homologation)

2. Tested sample: Tyre Sort: M Ident. No.: 52686
 Dimension 90/90-21 Name: Mitas E-07+ Enduro Trail+
 Designation I Product: TWS Moto Approval -
 LI: 54 SS: T IP: 290 kPa PR LR: B Type TL/TT M+S M
 Weight: 4,1 kg Measuring rim 2,15x21 DOT: - DOP: 2222

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: 695 mm (limits: 695 to 714 mm)
 Overall width: 91,1 mm (limit: 113 mm)
 Undergo cycles: Undergo track: km

6. Evaluation: Criterion defined in ECE-R75
 Udiam: 0,6 mm Uwidth: 0,3 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 52686 Tyre size: 90/90-21 Mitas E-07+ End 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
13.06.2022	280	2 184	90,7	91,1	91	90.8	90,9	91	91,1	695

**TRELLEBORG TEST REPORT No. 2022 - 2626**

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.: BG/22044
 Škofjeloška cesta 6 Dept.: Moto Kran Task: 05S/2022/BG
 4000 Kranj Project No.: 05S/2022/BG
 Slovenia Application date: 02.06.2022
 Responsible: Mr. Gubanc Report issue date: 14.06.2022
 Test motive: Prototype tyres P-19/22 (Postinf.) (ECE homologation)

2. Tested sample: Tyre Sort: M Ident. No.: 52686
 Dimension 90/90-21 Name: Mitas E-07+ Enduro Trail+
 Designation I Product: TWS Moto Approval -
 LI: 54 SS: T IP: 290 kPa PR LR: B Type TL/TT M+S M
 Weight: 4,1 kg Measuring rim 2,15x21 DOT: - DOP: 2222

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

5. Results: See Appendix 22-2626
 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.: 52686 Size: 90/90-21 Mitas E-07+ Enduro Trail Method: KPB-M-003

Date: 13.06.2022

Dimension of approval mark:

diameter of circle: 0 mm

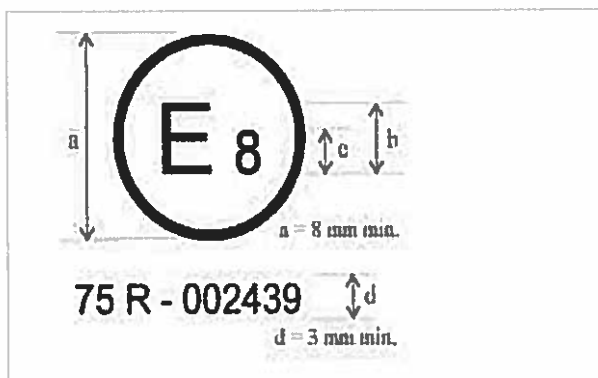
height of letter E: 0 mm

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): -

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 No

TWI markings: No

DP (mark): No

NHS (mark): No

**TRELLEBORG TEST REPORT No. 2022 - 2628**

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.: BG/22044
 Škofjeloška cesta 6 Dept.: Moto Kran Task: 05S/2022/BG
 4000 Kranj Project No.: 05S/2022/BG
 Slovenia Application date: 02.06.2022
 Responsible: Mr. Gubanc Report issue date: 16.06.2022
 Test motive: Prototype tyres P-19/22 (Postinf.) (ECE homologation)

2. Tested sample: Tyre Sort: M Ident. No.: 52686
 Dimension 90/90-21 Name: Mitas E-07+ Enduro Trail+
 Designation 1 Product: TWS Moto Approval -
 LI: 54 SS: T IP: 290 kPa PR LR: B Type TL/TT M+S M
 Weight: 4.1 kg Measuring rim 2.15x21 DOT: - DOP: 2222

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 circumference at start and at end of test: 0,2 %
 Undergo cycles: 66 796 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 RNDr. Petr Sliž



Sample No.: 52686		Dimension:		90/90-21		Mitas E-07+ Endur				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	14.06.2022 16:39:22	000:00:00	000:00:00			350			36,0			697
2	Cont	14.06.2022 17:00:08	000:20:00	000:20:00	79,9	135		340		36,0	27	12 480	9
3	Cont	14.06.2022 17:10:10	000:10:00	000:30:00	160,0	135		341		36,1	53	24 962	7
4	Cont	14.06.2022 17:20:12	000:10:00	000:40:00	170,0	135		342		36,2	82	38 149	7
5	Cont	14.06.2022 17:30:14	000:10:00	000:50:00	180,1	135		342		36,2	112	52 103	7
6	Cont	14.06.2022 17:40:17	000:10:00	001:00:00	190,0	135		342		36,3	143	66 796	6
7	Int: M	14.06.2022 17:45:11	000:04:54	001:00:00						36,2			
8	Int: O	15.06.2022 6:43:28	012:58:17	001:00:00			338			36,2			698
9	End	15.06.2022 6:43:30	000:00:01	001:00:00						36,2			

Tyre width immediately after end of test(mm): 91,7 - 91,5 - 91,7 - 91,7 - 91,8 - 91,7

Change of tyre circumference before test and 6h after test (%): 0,18



TRELLEBORG

TEST REPORT No. 2022 - 2629



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.: BG/22044
 Škofjeloška cesta 6 Dept.: Moto Kran Task: 05S/2022/BG
 4000 Kranj Project No.: 05S/2022/BG
 Slovenia Application date: 02.06.2022
 Responsible: Mr. Gubanc Report issue date: 15.06.2022
 Test motive: Prototype tyres P-19/22 (Postinf.) (ECE homologation)

2. Tested sample: Tyre Sort: M Ident. No.: 52686
 Dimension 90/90-21 Name: Mitas E-07+ Enduro Trail+
 Designation 1 Product: TWS Moto Approval -
 LI: 54 SS: T IP: 290 kPa PR LR: B Type TL/TT M+S M
 Weight: 4,1 kg Measuring rim 2,15x21 DOT: - DOP: 2222

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: 190 km/h Slip: 0° Camber: 0°
 Cycle min/max: Track min/max: km

5. Results: Max. centrifugal radius of tyre at max. speed: 351 mm (limit: 362 mm)
 Overall width of tyre at max. speed: 90 mm (limit: 99 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 RNDr. Petr Sliž

[Signature]



[Signature]

tyre
radius
mm

Measurement of tyre profile

S1 S2
S3 S4

