



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



Trelleborg Slovenija d.o.o.
PA Moto
Škofjeloška cesta 6
4000 Kranj
SLOVENIA

E8*75R00/16*1190*00

Zlín 9th September 2019

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 :

120/70ZR19 MITAS TOURING FORCE (60W)

with the approval number : **E8*75R00/16*1190*00**
date of inspection: **9th September 2019**

Sincerely yours

IGTT a.s.
Tyre Approval Department
Šternberská 446, Louky
763 02 Zlín, Czech Republic
IČ/ID: 46900080 DIČ/VAT: CZ46900080 **21.**

Petr Husták, Ph.D.
Tyre Approval Department Head

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~~APPROVAL WITHDRAWN~~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 moped pursuant to Regulation No. 75

Homologace č.:
Approval No.: **E8*75R00/16*1190*00**

Rozšíření č.: -
Extension No.: -

1. Jméno a adresa výrobce :
Manufacturer's name and address :
Trelleborg Wheel Systems Czech Republic a.s.
výrobní úsek Zlín
ulice Šedesátá č.p. 5638
762 02 Zlín
CZECH REPUBLIC
Trelleborg Slovenija, d.o.o.
PA Moto
Škofjeloška cesta 6
4000 Kranj
SLOVENIA
2. Označení typu pneumatiky :
Tyre type designation : **TOURING FORCE**
- 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) : -
3. Název a adresa zástupce výrobce (je-li potřebné) :
If applicable, name and adress of 4 manufacturer's representative : **N/A**
4. Souhrnný popis
Sumarized description
- 4.1. Označení rozměru pláště :
Tyre size designation : **120/70ZR19**
- 4.2. Kategorie užití :
Category of use : **normální / speciální / zimní / moped / all-terrain**
normal / special / snow / moped /all-terrain 1/
- 4.3. Konstrukce :
Structure : **diagonální / radiální / smíšená /**
diagonal / radial / bias-belted / 1/
- 4.4. Kategorie rychlosti :
Speed category symbol : **W**
- 4.5. Indexy nosnosti :
Load capacity index : **60**



- 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 : IGTT a. s. - Institut gumárenské technologie a testování
Technical service and where applicable, test laboratory additional approved purposes of approval or of verification of conformity : Rubber Technology and Testing Institute, Šternberská 446, Louky, 763 02 ZLÍN, CZECH REPUBLIC
6. Datum protokolu, vydaného touto zkušebnou : 28.08.2019, 28.08.2019
Date of report issued by that service : 28.08.2019, 28.08.2019
7. Číslo protokolu, vydaného touto zkušebnou : 2019-4644, 2019-4645
Number of report issued by that service : 2019-4646, 2019-4649
8. Důvod pro rozšíření (je-li potřebné) : -
Reason (s) of extension (if applicable) : -

9. Poznámky : Max povolená rychlost 280km/h
Any remarks : Max permitted speed 280km/h

10. Místo :
Place : Praha

11. Datum :
Date : 09.09.2019

12. Podpis :
Signature : Petr H u s t á k



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

- výkresy bočnice a běhounu pláště
drawing of the tyre sidewalls and tread
- kótovaný výkres příčného řezu pláště
dimensioned drawing of tyre cross - section

1/ Nehodící se škrtněte
Delete that which does not apply

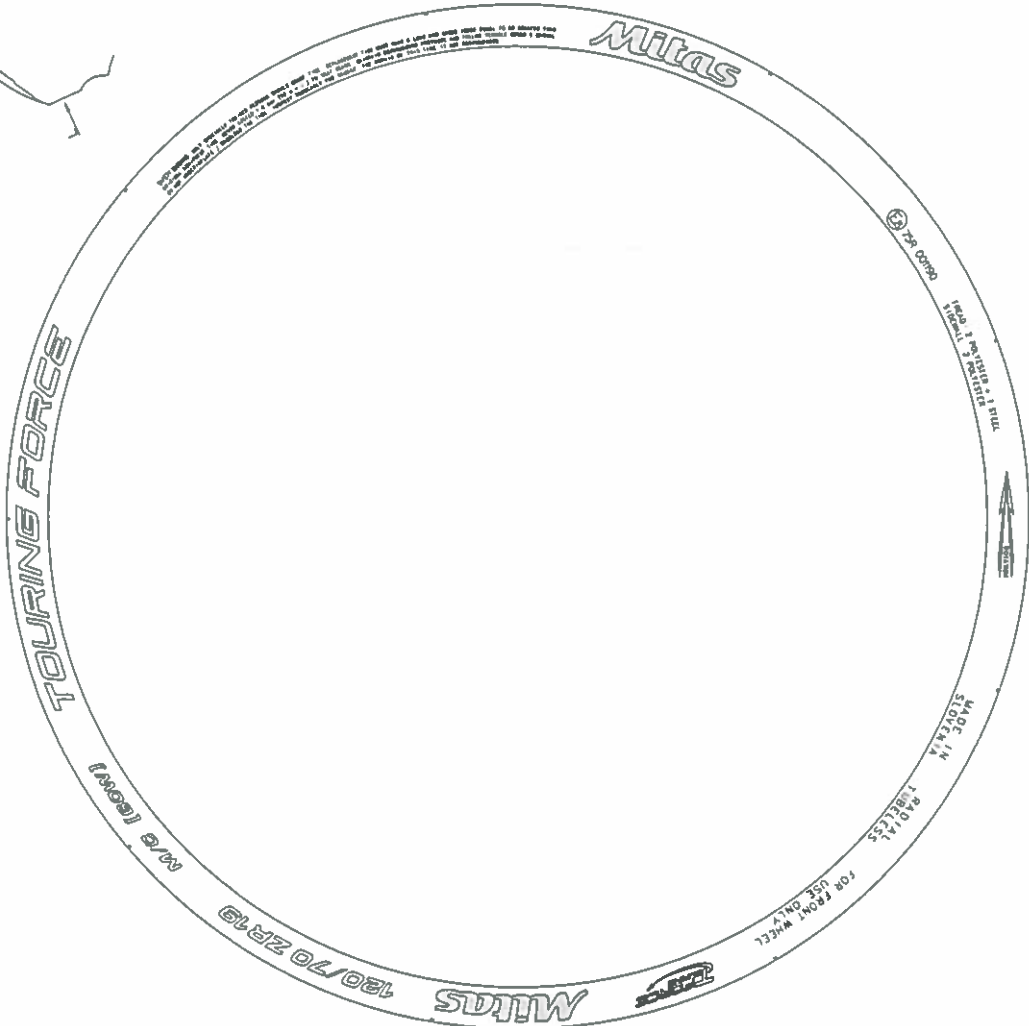
E8 75 R 001190

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

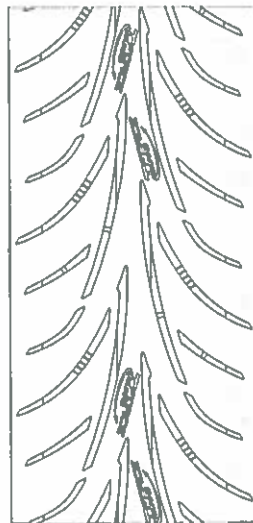
4.1.1. Tyre size designation:	120/70ZR19
4.1.2. Manufacturers name, tyre name:	MITAS TOURING FORCE
4.1.3. The category of use:	MOTORCYCLE
4.1.4. Structure (diagonal, bias belted, radial):	RADIAL
4.1.5. The speed category:	W
4.1.6. The load-capacity index of the tyre:	60
4.1.7. Tube type or Tubeless:	TUBELESS
4.1.8. Normal or Reinforced:	NORMAL
4.1.9. Ply rating number of tyres for motor cycle derivatives:	TREAD: 2 POLYESTER+1 STEEL SIDEWALL: 2 POLYESTER
The overall dimensions	
4.1.10. overall section width:	Overall section width: 120.0 mm
overall diameter:	Overall diameter: 653.0 mm
4.1.11. The rims on which the tyre can be mounted:	3.00-19, 3.50-19, 3.75-19
4.1.12. The measuring rim and test rim:	3.50-19
4.1.13. The test and measurement pressure	Test pressure: 320 kPa Measuring pressure: 280 kPa
4.1.14. Factor x	0.7
4.1.15. Max allowed speed for load-capacity defined in 4.1.6.	280 km/h



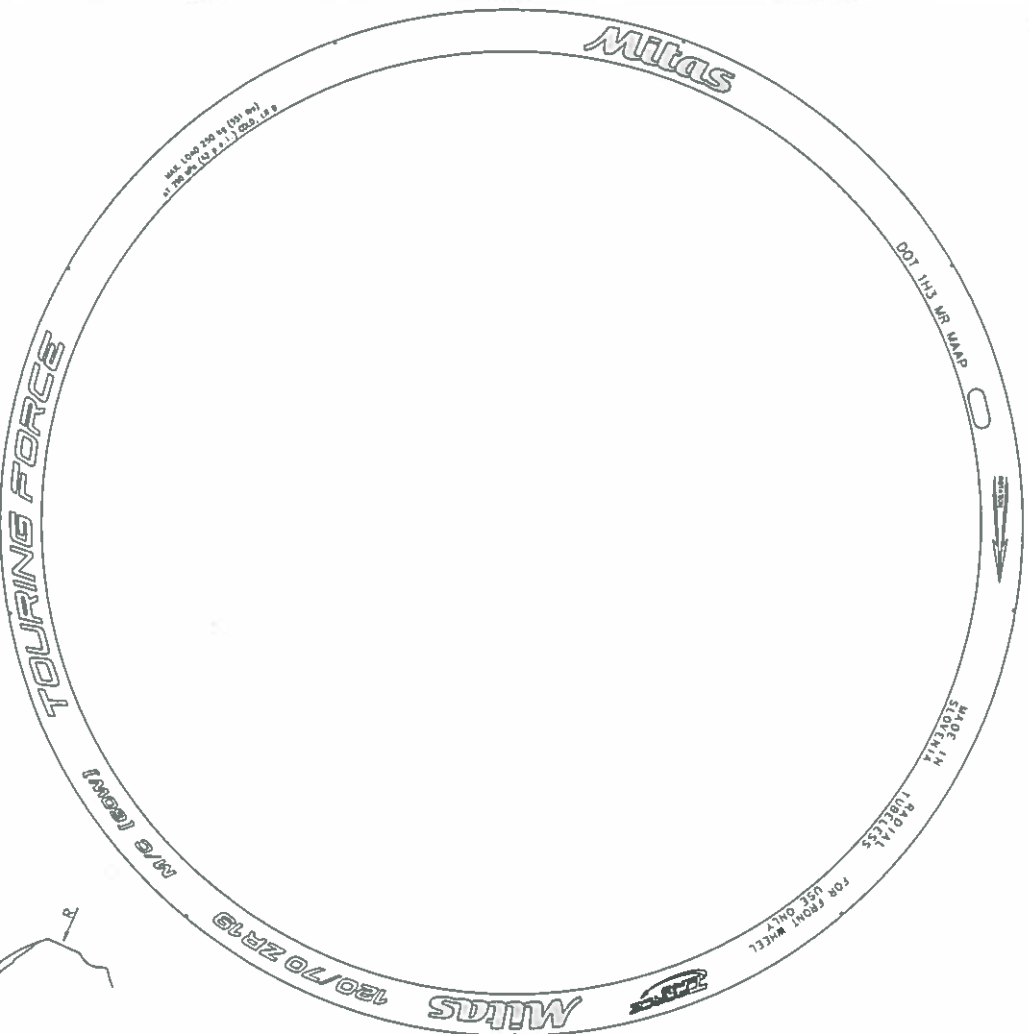

EXPANSION ON FIRE - TOP HALF OF THE MOLD
(VIEW 1)



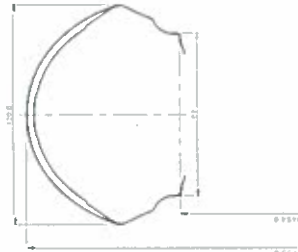
OVERALL (approx) MITSUBISHI TUBES PATENT



EXPANSION ON FIRE - BOTTOM HALF OF THE MOLD
(VIEW 2)



CROSS SECTION OF MOUNTED TIRE



IGTT a.s.
homologace pneumatik
Siembořská 448, Louky
763 02 Zlín, Czech Republic
IČ/ID: 46900080 DIČ/VAT: CZ46900080

IGTT

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Handwritten signature

MITSUBISHI TUBES		MITSUBISHI TUBES	
Model	120/70 ZR19	Model	120/70 ZR19
Size	M/G (LOW)	Size	M/G (LOW)
Speed	100 km/h	Speed	100 km/h
Weight	1.5 kg	Weight	1.5 kg
Pressure	2.5 bar	Pressure	2.5 bar
Temp	100°C	Temp	100°C
Life	100,000 km	Life	100,000 km
Warranty	100,000 km	Warranty	100,000 km
Notes		Notes	

EXPANSION ON FIRE - TOP HALF OF THE MOLD (VIEW 1)

TEST REPORT No. 2019-4644

Tyre testing laboratory No.1253, accredited by Czech Accreditation Institute according ČSN EN ISO/IEC 17025:2005

1. Customer: Trelleborg Slovenija d.o.o.
 Škofjeloška cesta 6
 4000 Kranj
 Slovenia
 Responsible: Mr. Gubanc
 Requirement No.: BG/19096
 Dept.: PA Moto Task: 08A/2019
 Project No.: 08A/2019
 Application date: 20.8.2019
 Report issue date: 28.8.2019
 Test motive: Prototype tires P-44/19 (No. 2,3,4,5,6,7) – ECE release

2. Tested sample: Tyre
 Sort: M Ident. No.: 45210
 Dimension 120/70ZR19 Name: Mitas Touring Force
 Designation No.6, 1 Product: Trelleborg Sloven Approval E8 75R 001190
 LI: 60 SS: W IP: 290 kPa PR LR: B Type TL
 Weight: 4,86 k Measuring ri 3,50x19 DOT: H3 DOP 2619
 V max = 280 km/h

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: 653mm
 Overall width: 120mm
 Undergo cycles: Undergo track: km

6. Evaluation: Criterion defined in ECE-R75
 Tyre met test criterion
 Uwidth = 0,3 mm; Udiam = 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 tyre testing laboratory

Issued by: Tyre testing laboratory head technician V. Závada

Approved by: Laboratory quality manager RNDr. Petr Slíž



IGT a.s.
 homologace pneumatik
 Šternberská 446, Louky
 763 02 Zlín, Czech Republic
 IGT
 DIČ/VAT: CZ46900080




Sample No 45210 Tyre size: 120/70ZR19 Mitas Touring Fo 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
24.8.2019	280	2 050	119,9	119,9	119,7	119,5	120	120	120,0	653

TEST REPORT No. 2019-4645

1. Customer: Trelleborg Slovenija d.o.o.
 Škofjeloška cesta 6
 4000 Kranj
 Slovenia
 Responsible: Mr. Gubanc
 Test motive: Prototype tires P-44/19 (No. 2,3,4,5,6,7) – ECE release

Requirement No.: BG/19096
Dept.: PA Moto **Task:** 08A/2019
Project No.: 08A/2019
Application date: 20.8.2019
Report issue date: 28.8.2019

2. Tested sample: Tyre
 Sort: M Ident. No.: 45210
 Dimension 120/70ZR19 Name: Mitas Touring Force
 Designation No.6, 1 Product: Trelleborg Sloveni Approval E8 75R 001190
 LI: 60 SS: W IP: 290 kPa PR LR: B Type TL
 Weight: 4,86 k Measuring rim 3,50x19 DOT: H3 DOP 2619
 V max = 280 km/h

3. Test: Sidewall lettering inspection
 Method: KPB-M-003 not 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: See appendix No. 19-4645

Undergo cycles: Undergo track km

6. Evaluation: Criterion defined in ECE-R75

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 tyre testing laboratory

Issued by: Tyre testing laboratory head technician V. Závada

Approved by: Laboratory quality manager Dr. Petr Slíž



Sample No.: 45210

Size:

120/70ZR19

Mitas Touring Force

Method:

KPB-M-003

Date: 24.8.2019

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): 4 mm

Measured where (text):

Size designation (text) :

Structure (diagonal/bias belted/radial):

Trade name (mark):

Speed category (mark):

Load capacity (mark):

Ply rating (mark):

TUBELESS (text):

REINFORCED or REINF (text):

M+S or M.S or MS (or DP) (mark):

MST (mark):

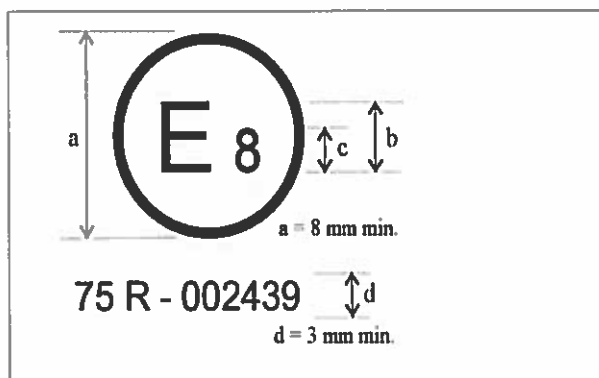
Date of production (wwyy):

M/C (mark):

MOPED or CYCLOMOTEUR (text):

(W) for SS>270km/h :

Running rotation (mark):



b TUBELESS M + S

TUBELESS

Yes

No

Yes

Yes

Yes

No

Yes

No

No

No

Yes

Yes

-

No

Yes

TEST REPORT No. 2019-4646

Tyre testing laboratory No.1253, accredited by Czech Accreditation Institute according ČSN EN ISO/IEC 17025:2005

1. Customer: Trelleborg Slovenija d.o.o.
 Škofjeloška cesta 6
 4000 Kranj
 Slovenia
 Responsible: Mr. Gubanc
 Test motive: Prototype tires P-44/19 (No. 2,3,4,5,6,7) – ECE release

Requirement No.: BG/19096
Dept.: PA Moto **Task:** 08A/2019
Project No.: 08A/2019
Application date: 20.8.2019
Report issue date: 28.8.2019

2. Tested sample: Tyre
 Sort: M Ident. No.: 45210
 Dimension 120/70ZR19 Name: Mitas Touring Force
 Designation No.6, 1 Product: Trelleborg Sloveni Approval E8 75R 001190
 LI: 60 SS: W IP: 290kPa PR LR: B Type TL
 Weight: 4,86 k Measuring rim 3,50x19 DOT: H3 DOP 2619
 V max = 280 km/h

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: 320kPa capped
 Load: 120 daN Drum speed: km/h Slip: 0° Camber: 0°
 Cycle min/max: Track min/max: km

5. Results: Without failure

Undergo cycles: 103 625 Undergo track 210 km

6. Evaluation: Criterion no defects and circumf.difference before and 6h after test max. ±3,5%
 Tyre met the test criterion
 U = 0,1 %

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 tyre testing laboratory

Issued by: Tyre testing laboratory head technician V. Závada

Approved by: Laboratory quality manager RNDr. Petr Slíž

Sample No.: 45210		Dimension: 120/70ZR19		Mitas Touring Forc		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	24.8.2019 9:59:30	000:00:00	000:00:00			320			34,5			653
2	Cont	24.8.2019 10:20:18	000:20:00	000:20:00	120,1	120		321		34,5	40	19 762	5
3	Cont	24.8.2019 10:30:20	000:10:00	000:30:00	240,0	120		322		34,8	80	39 541	5
4	Cont	24.8.2019 10:40:22	000:10:00	000:40:00	250,1	120		322		35,0	122	60 090	4
5	Cont	24.8.2019 10:50:24	000:10:00	000:50:00	260,1	120		322		35,1	165	81 444	4
6	Cont	24.8.2019 11:00:26	000:10:00	001:00:00	270,1	120		322		35,0	210	103 625	4
7	Int:M	24.8.2019 11:05:50	000:05:24	001:00:00						34,8			
8	Int:O	24.8.2019 17:18:57	006:13:07	001:00:00			311			34,8			653
9	End	24.8.2019 17:18:59	000:00:02	001:00:00						34,8			

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

Change of tyre circumference before test and 6h after test (%): 0,05


TEST REPORT No. 2019-4649

 Tyre testing laboratory No.1253, accredited by Czech Accreditation Institute
 according ČSN EN ISO/IEC 17025:2005

1. Customer:	Trelleborg Slovenija d.o.o.	Requirement No.:	BG/19096
	Škofjeloška cesta 6	Dept.:	PA Moto Task: 08A/2019
	4000 Kranj	Project No.:	08A/2019
	Slovenia	Application date:	20.8.2019
	Responsible: Mr. Gubanc	Report issue date:	28.8.2019
Test motive: Prototype tires P-44/19 (No. 2,3,4,5,6,7) – ECE release			

2. Tested sample:	Tyre	Sort:	M	Ident. No.:	45211	
	Dimension	120/70ZR19	Name:	Mitas Touring Force		
	Designation	No.3, 3	Product:	Trelleborg Sloveni	Approval	E8 75R 001190
	LI:	60	SS:	W	IP:	290 kPa
	Weight:	4,92 k	Measuring rim	3,50x19	DOT:	H3 DOP 2719
V max = 280 km/h						

3. Test:	Speed test
	Method: RZ-M-0031 accredited

4. Test condition:	Testing machine:	H2L	Drum:	2000 mm	Ambient temperature:	38±3°C
	Testing rim:	MT3,50x19 H2	Inflation:	320 kPa	capped	
	Load:	120 daN	Drum speed:		Slip:	0°
	Cycle min/max:		Track min/max:			km

5. Results:	Without failure

Undergo cycles: 94 941 Undergo track 192 km

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

U = 0,1 %

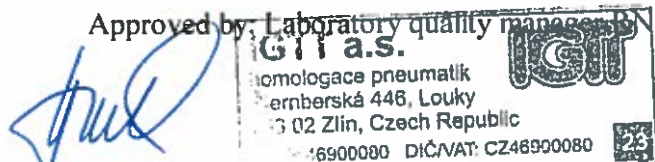
U: Expanded uncertainty = multiplying the combined standard uncertainty by a coverage factor k=2, what for normal distribution have a level of confidence of 95%

7. Appendix:	1. Drum tyre test record
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8. Warning:	Test results are concerning this sample only. It is strongly prohibited to copy any part of this report without permission of the tyre testing laboratory
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Issued by: Tyre testing laboratory head technician V. Závada

Approved by: Laboratory quality manager Dr. Petr Sliž



Sample No.: 45211		Dimension: 120/70ZR19		Mitas Touring Forc		Test: RZ-M-0031							
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	24.8.2019 7:40:09	000:00:00	000:00:00			320			34,2			653
2	Cont	24.8.2019 8:00:52	000:20:00	000:20:00	125,0	120		321		34,2	42	20 569	5
3	Cont	24.8.2019 8:20:54	000:20:00	000:40:00	250,0	120		322		34,6	125	61 668	4
4	Cont	24.8.2019 8:30:56	000:10:00	000:50:00	264,9	120		322		34,9	169	83 398	4
5	Cont	24.8.2019 8:35:58	000:05:00	000:55:00	280,0	120		322		35,0	192	94 941	4
6	Int M	24.8.2019 8:42:07	000:06:08	000:55:00						34,8			
7	Int O	24.8.2019 15:44:04	007:01:57	000:55:00			316			34,8			653
8	End	24.8.2019 15:44:14	000:00:10	000:55:00						34,8			

Tyre width immediately after end of test(mm): 120,9 - 120,6 - 120,5 - 120,7 - 120,7 - 120,6

Change of tyre circumference before test and 6h after test (%): 0,05