



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*1370*00

Zlín 16th August 2022

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:

160/60ZR17 SPORT FORCE+ EV (69W)

with the approval number : **E8*75R00/19*1370*00**
date of inspection : **16th August 2022**

inspector's name : **Václav Hořelka**

Sincerely yours

IGTT a.s.

Tyre Approval Department
Šternberská 446, Louky
763 02 Zlín, Czech Republic

IČ/ID: 46900080 DIČ/VAT: CZ46900080



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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, 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APPROVAL WITHDRAWN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*1370*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) | : | SPORT FORCE+ EV |
| 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 | : | 160/60ZR17 |
| 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 | : | W |
| 4.5. | Indexy nosnosti | : | |
| | Load capacity index | : | 69 |
| 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 | 14.09.2021, 14.09.2021
15.09.2021 |
| 7. | Číslo protokolu, vydaného touto zkušebnou
Number of report issued by that service | 2021-4010, 2021-4011
2021-4012 |
| 8. | Důvod pro rozšíření (je-li potřebné)
Reason (s) of extension (if applicable) | - |
| 9. | Poznámky
Any remarks | Max povolená rychlost 280 km/h
Max permitted speed 280 km/h |
| 10. | Místo
Place | Praha
Prague |
| 11. | Datum
Date | 16.08.2022 |
| 12. | Podpis
Signature | 
Václav Horelka |



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**

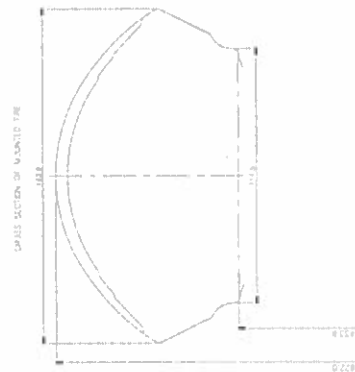
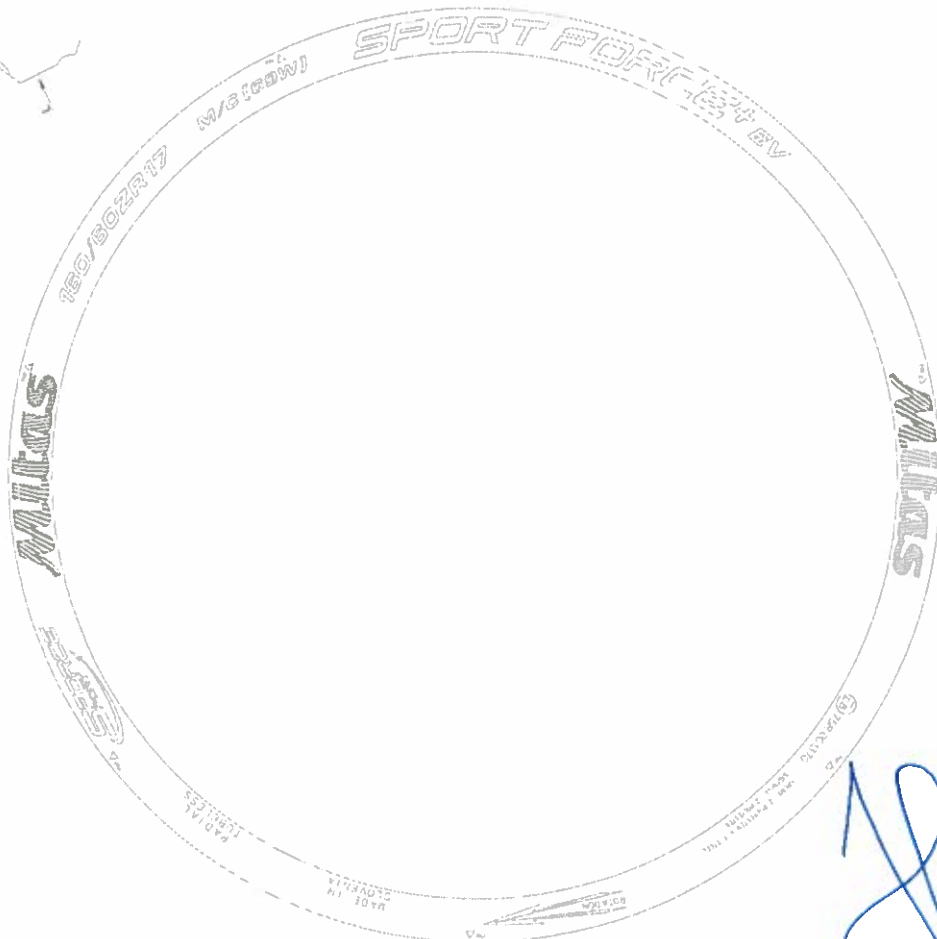
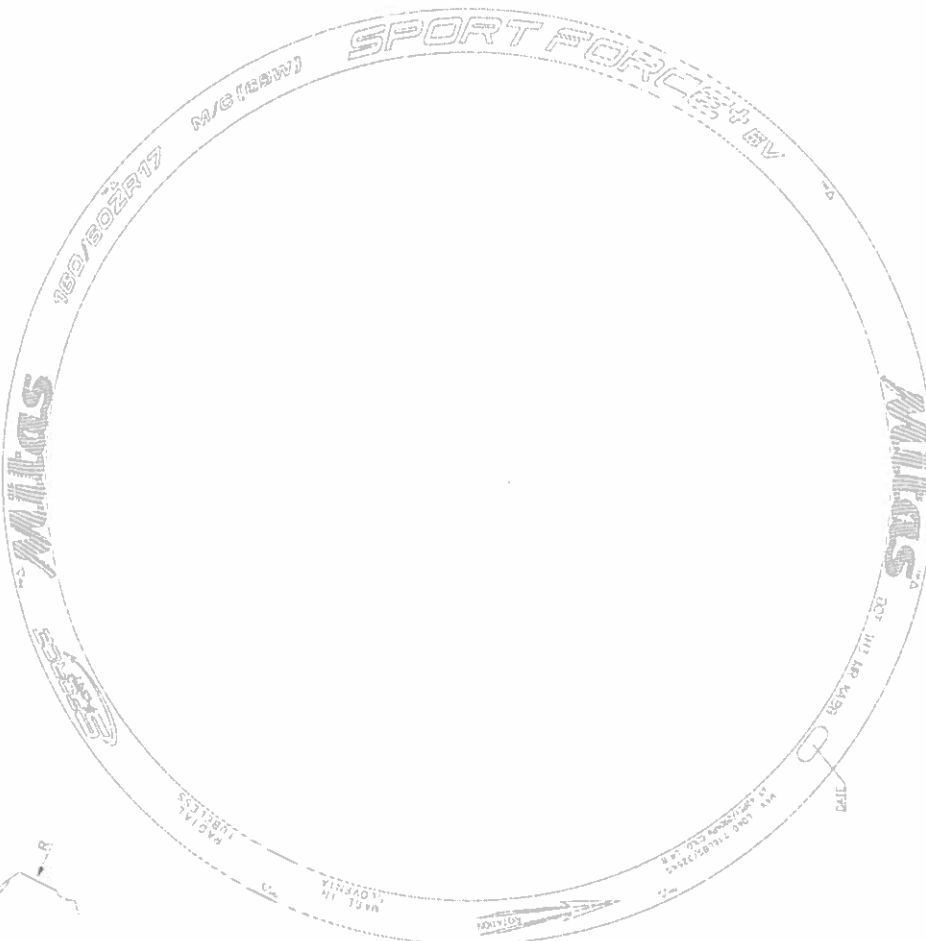
4.1.1. Tyre size designation:	160/60ZR17
4.1.2. Manufacturers name, tyre name:	MITAS, SPORT FORCE+ EV
4.1.3. The category of use:	MOTORCYCLE
4.1.4. Structure (diagonal, bias belted, radial):	RADIAL
4.1.5. The speed category:	(W)
4.1.6. The load-capacity index of the tyre:	69
4.1.7. Tube type or Tubeless:	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: 162.9 mm
overall diameter:	Overall diameter: 622.0 mm
4.1.11. The rims on which the tyre can be mounted:	4.25-17, 4.50-17, 5.00-17
4.1.12. The measuring rim and test rim:	4.50-17
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



DEPRESSION ON TIRE - BOTTOM HALF OF THE WHEEL
(VIEW 2)



DEPRESSION ON TIRE - TOP HALF OF THE WHEEL
(VIEW 1)



DEPRESSION ON TIRE - TOP HALF OF THE WHEEL
(VIEW 1)



GENERAL DATA		TIRE DATA		MATERIAL DATA	
Model	100/80ZR17	Size	100/80ZR17	Material	NR
Year	2017	Speed	240 km/h	Weight	1.2 kg
Manufacturer	IGTT a.s.	Country	Czech Republic	Production date	2017.05.15
Customer	IGTT a.s.	Address	Střemberská 446, Louky	Phone	+420 469 000 800
Project	IGTT a.s.	Project manager	IGTT a.s.	Project date	2017.05.15
Version	1.0	Revision	1.0	Revision date	2017.05.15

Handwritten signature

IGTT a.s.
homologace pneumatik
Střemberská 446, Louky
563 02 Zlín, Czech Republic
IČO: 46900080 DIČ/VAT: CZ46900080




**TRELLEBORG TEST REPORT No. 2021 - 4010**

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/21027
 Škofjeloška cesta 6 Dept.: Moto Kran Task: 08D/2021/BG
 4000 Kranj Project No.: 08D/2021/BG
 Slovenia Application date: 07.09.2021
 Responsible: Mr. Gubanc Report issue date: 14.09.2021
 Test motive: Prototype tyres P-27/21 No.6,7,8,9,10 (ECE homologation)

2. Tested sample: Tyre Sort: M Ident. No.: 50655
 Dimension 160/60ZR17 Name: Mitas Sport Force+ EV
 Designation 1, 6 Product: TWS Moto Approval E8 75R 000674
 LI: 69 SS: W IP: 290kPa PR LR: B Type TL
 Weight: 6,02 kg Measuring rim 4.50x17 DOT: H3 DOP: 3321
 V max = 280 km/h (69W)

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: MT4,50x17 H2 Inflation: 280kPa
 Load: daN Drum speed: km/h Slip: 0° Camber: 0°
 Cycle min/max: Track min/max: km

5. Results: Overall diameter: 622mm (limits: 618 to 637 mm)
 Overall width: 162,9 mm (limit: 177 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 Slíž



[Signature]

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

Sample No 50655 Tyre size: 160/60ZR17 Mitas Sport Forc Method: MZR-M-003

Date of measurement	Tyre		Tyre width at six points on circumference						Overall tyre	
	inflation kPa	cicumf. mm	1 mm	2 mm	3 mm	4 mm	5 mm	6 mm	width mm	diameter mm
14.09.2021	280	1 954	162,6	162,5	162,3	162,5	162,1	162,9	162,9	622

**TRELLEBORG TEST REPORT No. 2021 - 4011**

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/21027
 Škofjeloška cesta 6 Dept.: Moto Kran Task: 08D/2021/BG
 4000 Kranj Project No.: 08D/2021/BG
 Slovenia Application date: 07.09.2021
 Responsible: Mr. Gubanc Report issue date: 14.09.2021
 Test motive: Prototype tyres P-27/21 No.6,7,8,9,10 (ECE homologation)

2. Tested sample: Tyre Sort: M Ident. No.: 50655
 Dimension 160/60ZR17 Name: Mitas Sport Force+ EV
 Designation 1, 6 Product: TWS Moto Approval E8 75R 000674
 LI: 69 SS: W IP: 290kPa PR LR: B Type TL
 Weight: 6.02 kg Measuring rim 4.50x17 DOT: H3 DOP: 3321
 V max = 280 km/h (69W)

3. Test: Sidewall lettering inspection
 Method: KPB-M-003 accredited

4. Test condition: Testing machine: - Drum: - mm Ambient temperature: 25±5°C
 Testing rim: MT4,50x17 H2 Inflation: 280kPa
 Load: daN Drum speed: km/h Slip: 0° Camber: 0°
 Cycle min/max: Track min/max: km

5. Results: See appendix 21-4011
 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 Testing Laboratory. The results apply to the sample as received.

Approved by: Laboratory quality manager RNDr. Petr Slíž



Sample No.: 50655 Size: 160/60ZR17 Mitas Sport Force+ EV Method: KPB-M-003

Date: 14.09.2021

Dimension of approval mark:

diameter of circle: 10 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):

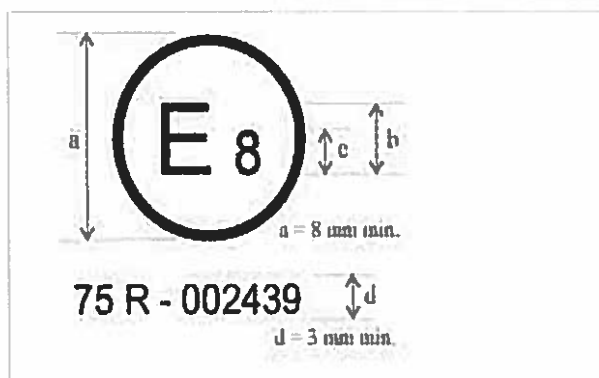
Date of production (wwyy):

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

-

Yes

Yes

**TRELLEBORG TEST REPORT No. 2021 - 4012**

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/21027
 Škofjeloška cesta 6 Dept.: Moto Kran Task: 08D/2021/BG
 4000 Kranj Project No.: 08D/2021/BG
 Slovenia Application date: 07.09.2021
 Responsible: Mr. Gubanc Report issue date: 15.09.2021
 Test motive: Prototype tyres P-27/21 No.6,7,8,9,10 (ECE homologation)

2. Tested sample: Tyre Sort: M Ident. No.: 50655
 Dimension 160/60ZR17 Name: Mitas Sport Force+ EV
 Designation 1, 6 Product: TWS Moto Approval E8 75R 000674
 LI: 69 SS: W IP: 290 kPa PR LR: B Type TL
 Weight: 6.02 kg Measuring rim 4.50x17 DOT: H3 DOP: 3321
 V max = 280 km/h (69W)

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: MT4,50x17 H2 Inflation: 320 kPa capped
 Load: 155 daN Drum speed: km/h Slip: 0° Camber: 0°
 Cycle min/max: Track min/max: km

5. Results: Without failure
 Change of tyre circumference: 0,0 %

Undergo cycles: 108 604 Undergo track: 210 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 Slíž



Sample No.: 50655		Dimension: 160/60ZR17		Mitas Sport Force+		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	14.09.2021 12:46:42	000:00:00	000:00:00			320			38,4			622
2	Cont	14.09.2021 13:07:31	000:20:00	000:20:00	120,3	153		304		38,8	40	20 742	7
3	Cont	14.09.2021 13:17:33	000:10:00	000:30:00	240,0	153		305		39,1	80	41 469	6
4	Cont	14.09.2021 13:27:35	000:10:00	000:40:00	250,1	153		305		39,2	122	62 995	6
5	Cont	14.09.2021 13:37:37	000:10:00	000:50:00	260,1	153		305		39,3	165	85 373	6
6	Cont	14.09.2021 13:47:40	000:10:00	001:00:00	270,1	153		305		39,3	210	108 604	6
7	Int M	14.09.2021 13:57:36	000:09:56	001:00:00						39,0			
8	Int O	15.09.2021 6:43:09	016:45:33	001:00:00			303			39,0			622
9	End	15.09.2021 6:43:11	000:00:02	001:00:00						39,0			

Tyre width immediately after end of test(mm): 164,4 - 164,2 - 164,0 - 164,2 - 164,4 - 164,1

Change of tyre circumference before test and 6h after test (%): 0,00