



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



Zlín 13th December 2023

E8*75R00/19*1618*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:

180/60ZR17 MITAS SPORT FORCE+ RS (75W)

with the approval number : **E8 75R - 001618**
date of inspection : **13th December 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 – 001618

4.1.1. Tyre size designation:	180/60ZR17
4.1.2. Manufacturers name, tyre name:	MITAS, SPORT FORCE+ RS
4.1.3. The category of use:	NORMAL
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:	75
4.1.7. Tube type or Tubeless:	TUBELESS
4.1.8. Normal or Reinforced:	NORMAL
4.1.9. Ply rating number of tyres for motorcycle derivatives:	TREAD: 1 POLYESTER+1 STEEL SIDEWALL: 1 POLYESTER
4.1.10. The overall dimensions overall section width: overall diameter:	Overall section width: 176.4 mm Overall diameter: 654.0 mm
4.1.11. The rims on which the tyre can be mounted:	5.00x17, 5.50x17
4.1.12. The measuring rim and test rim:	5.00x17
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

Manufacturer's name and address:

Tyre Manufacturer (1)
Yokohama TWS Slovenija d.o.o.
Škofjeloška cesta 6,
4000 Kranj, Slovenia

Tyre Manufacturer (2)
SYAM Trelleborg Tires LLP
Plot No. 521, Sayakha Industrial Estate,
Near Village Juned, Taluka Vagra,
Dist. Bharuch, Gujarat, Pin-392140.

Tyre Manufacturer (3)
Yokohama TWS Czech Republic a.s.
Vavrečkova 7248
760 02 Zlín, Czech Republic



7 December 2023

Att. Ing. Tomáš Dudák
Director IGTT

Information letter

Yokohama TWS Slovenija d.o.o. informs that we have 3 manufacturing plants. The manufacturing process, raw materials, tire moulds, tread pattern and quality system of our company's products remains unchanged.

Based on this information letter, the approvals or extension of the approvals will be carried out.

All "E8" approved tires under our brand names are produced at plants, with the following addresses:

- 1) Yokohama TWS Slovenija d.o.o.

Škofjeloška cesta 6,
4000 Kranj Slovenia

- 2) SYAM Trelleborg Tires LLP

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

- 3) Yokohama TWS Czech Republic a.s.

Vavrečkova 7248
Zlín 760 02 Czech Republic

Damjan Grošelj
Director
Yokohama TWS Slovenija d.o.o.



Uroš Bajželj
Director
Yokohama TWS Slovenija d.o.o.

Yokohama TWS Slovenija d.o.o.
Družba za proizvodnjo in trženje pnevmatik
Škofjeloška cesta 6, 4000 Kranj, Slovenija

Yokohama TWS Slovenija, družba za proizvodnjo in trženje pnevmatik, d.o.o.
Škofjeloška cesta 6, 4000 Kranj, Slovenija
www.yokohama-tws.com

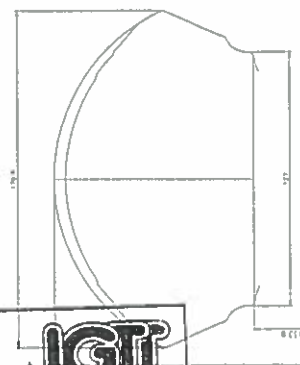
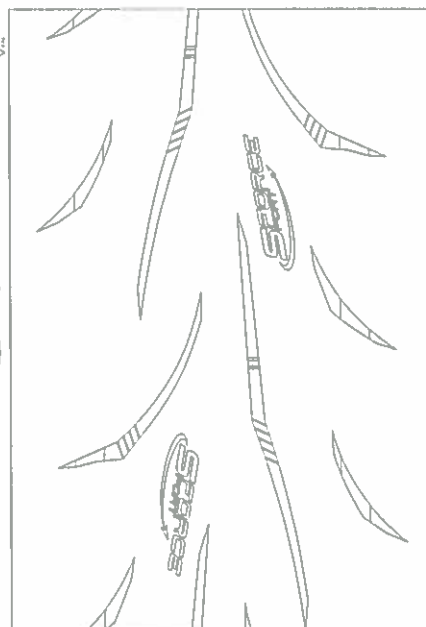
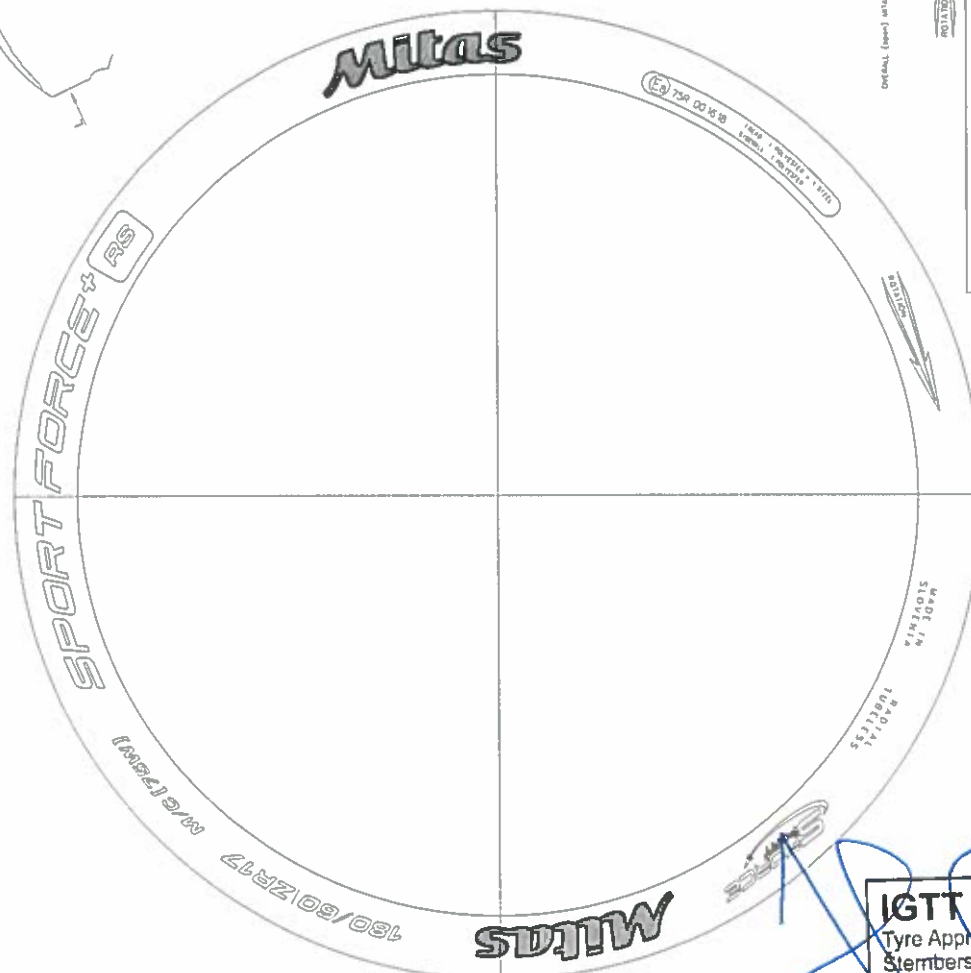
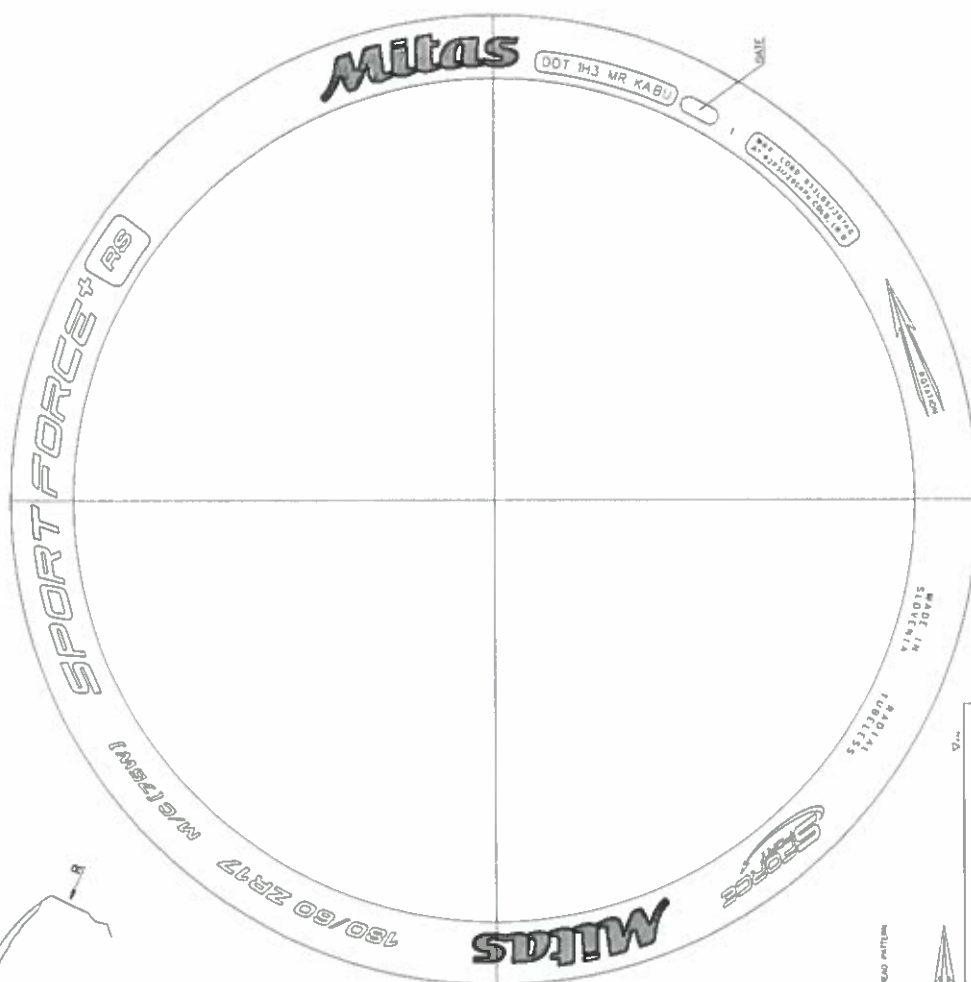
IGTT a.s.

Tyre Approval Department
Šternberská 446, Louky
763 02 Zlín, Czech Republic
IČ: 14690092 DIČ: VAT: CZ4690092



SECTION ON THE - BOTTOM HALF OF THE WHEEL
[view A]

SECTION ON THE - TOP HALF OF THE WHEEL
[view B]



IGTT a.s.
Tyre Approval Department
Sternberska 446, Louky
763 02 Zlin, Czech Republic
ČID: 46900080 DIČ/VAT: CZ46900080

Mitas	
Model	180/60 ZR17 M/C (P.M.V.)
Size	180/60 ZR17
Speed	180/60 ZR17
Load	180/60 ZR17
Pressure	180/60 ZR17
Temp	180/60 ZR17
Wear	180/60 ZR17
Rolling	180/60 ZR17
Slip	180/60 ZR17
Braking	180/60 ZR17
Handling	180/60 ZR17
Stability	180/60 ZR17
Comfort	180/60 ZR17
Noise	180/60 ZR17
Life	180/60 ZR17
Cost	180/60 ZR17
Value	180/60 ZR17
Service	180/60 ZR17
Warranty	180/60 ZR17
Notes	180/60 ZR17

29 November 2020

Attn: Ing. Tomáš Duřák
Director IGTT

Information letter

Yokohama TWS Slovenija d.o.o. informs that we have 3 manufacturing plants. The manufacturing process, raw materials, tire moulds, tread pattern and quality system of our company's products remains unchanged.

All "E5" approved tires under our brand names are produced at plants, with the following addresses:

1) Yokohama TWS Slovenija d.o.o.

Škofjeloška cesta 6,
4000 Kranj, Slovenia

2) SYAM Trelleborg Tires LLP

Plot No. 521, Sayakha Industrial Estate, Near Village Junec, Taluka Vagra,
Dist. Bharuch, Gujarat, Pin-392140.

3) Yokohama TWS Czech Republic a.s.

Vavrečkova 7248
Žilín 760 02 Czech Republic

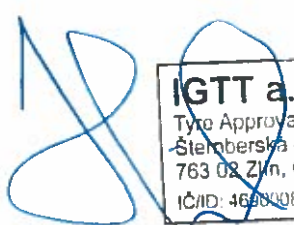
Gratiano Pinto Teixeira
Director
Yokohama TWS Slovenija d.o.o.



Uroš Rajfel
Director
Yokohama TWS Slovenija d.o.o.



Yokohama TWS Slovenija d.o.o.
Družba za proizvodnjo in trženje pnevmatik
Škofjeloška cesta 6, 4000 Kranj, Slovenija



IGTT a.s.
Tyre Approval Department
Štemberska 446, Louky
763 02 Žlín, Czech Republic
IČ/ID: 46980980 DIČ/VAT: CZ45900090





TEST REPORT No. 2023 - 5342

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/23034
 Škofjeloška cesta 6 Dept.: Moto Kran Task: 10B/2023/BG
 4000 Kranj Project No.: 10B/2023/BG
 Slovenia Application date: 10.10.2023
 Responsible: Mr. Gubanc Report issue date: 13.10.2023
 Test motive: Prototype tyres P-42/23 No.5,6,7,8,9,10,11 (ECE homolog.)

2. Tested sample: Tyre Sort: M Ident. No.: 56928
 Dimension 180/60ZR17 Name: Mitas Sport Force+ RS
 Designation I Product: TWS Moto Approval E8 75R 001618
 LI: 75 SS: W IP: 290kPa PR LR: B Type TL
 Weight: 6.24 kg Measuring rim 5.00x17 DOT: 1H3 DOP: 3923

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

4. Test condition: Testing machine: - Drum: - mm Ambient temperature: 25±5°C
 Testing rim: 5Jx17H2 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: 23-5342
 Undergo cycles: Undergo track: km

6. Evaluation: Criterion defined in ECE-R75 and other standards
 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 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. All tests are performed in lab permanent facility. The laboratory is responsible for all the information provided in the report, except the "designation" which is provided by customer.



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

Sample No.: 56928 Size: 180/60ZR17 Mitas Sport Force+ RS Method: KPB-M-003

Date: 13.10.2023

Dimension of approval mark:

diameter of circle: 11 mm

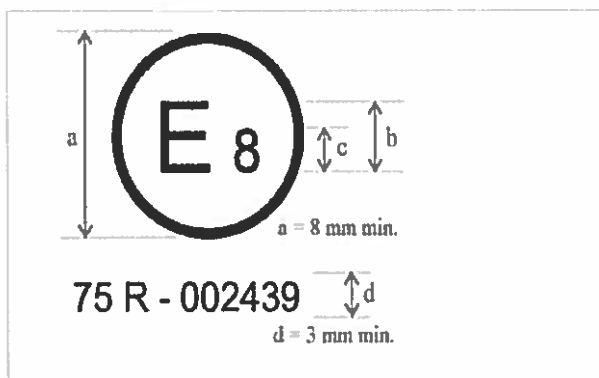
height of letter E: 6 mm

height of number: 4 mm

height of text 75R....: 4 mm

Sidewall lettering:

b ≥ 4 mm (min): 4 mm



b TUBELESS M + S

Measured where (text): Tubeless

Size designation (text): Yes

Structure (diagonal/bias belted/radial): R

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): No

MST (mark): No

Date of production (wwyy): Yes

M/C (mark): Yes

MOPED or CYCLOMOTEUR (text): -

(W) for SS>270km/h: Yes

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

TEST REPORT No. 2023 - 5343

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/23034
Škofjeloška cesta 6 Dept.: Moto Kran Task: 10B/2023/BG
4000 Kranj Project No.: 10B/2023/BG
Slovenia Application date: 10. 10. 2023
Responsible: Mr. Gubanc Report issue date: 17. 10. 2023
Test motive: Prototype tyres P-42/23 No.5,6,7,8,9,10,11 (ECE homolog.)

2. Tested sample: Tyre Sort: M Ident. No.: 56928
Dimension 180/60ZR17 Name: Mitas Sport Force+ RS
Designation I Product: TWS Moto Approval E8 75R 001618
LI: 75 SS: W IP: 290 kPa PR LR: B Type TL
Weight: 6,24 kg Measuring rim 5,00x17 DOT: 1H3 DOP: 3923

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: 5Jx17H2 Inflation: 280 kPa
Load: daN Drum speed: km/h Slip: 0° Camber: 0°
Cycle min/max: Track min/max: km

5. Results: Overall diameter: 654 mm
Overall width: 176,4 mm
Undergo cycles: Undergo track: km

6. Evaluation: Criterion defined in ECE-R75
Udiam = 1,5 mm; Uwidth = 1,0 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. All tests are performed in lab permanent facility. The laboratory is responsible for all the information provided in the report, except the "designation" which is provided by customer.

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



Sample No 56928 Tyre size: 180/60ZR17 Mitas Sport Fore 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
14. 10. 2023	280	2 053	175,8	176,2	176,4	176,1	176,3	176	176,4	654

TEST REPORT No. 2023 - 5344

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/23034
 Škofjeloška cesta 6 Dept.: Moto Kran Task: 10B/2023/BG
 4000 Kranj Project No.: 10B/2023/BG
 Slovenia Application date: 10. 10. 2023
 Responsible: Mr. Gubanc Report issue date: 17. 10. 2023
 Test motive: Prototype tyres P-42/23 No.5,6,7,8,9,10,11 (ECE homolog.)

2. Tested sample: Tyre Sort: M Ident. No.: 56928
 Dimension 180/60ZR17 Name: Mitas Sport Force+ RS
 Designation I Product: TWS Moto Approval E8 75R 001618
 LI: 75 SS: W IP: 290 kPa PR LR: B Type TL
 Weight: 6,24 kg Measuring rim 5,00x17 DOT: 1H3 DOP: 3923

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: 5Jx17H2 Inflation: 320 kPa capped
 Load: 185 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 %

Undergo cycles: 103 946 Undergo track: 209 km

6. Evaluation: Criterion no defects and circumf.difference before and 6h after test max. ±3,5%
 Uinfl = 3 kPa; Utime +1 s; Uspeed = 2 km/h;
 Uload = 5% (40 - 500 daN), 1% (501 - 30000 daN)
 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. All tests are performed in lab permanent facility. The laboratory is responsible for all the information provided in the report, except the "designation" which is provided by customer.

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



Sample No.: 56928		Dimension:		180/60ZR17		Mitas Sport Force+		Test:		RZ-M-003			
ID No.	Test stage	Date time dd.mm.rrrr 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. 10. 2023 9:28:42	000:00:00	000:00:00			320			35,9			654
2	Cont	14. 10. 2023 9:49:11	000:20:00	000:20:00	119,9	186		314		36,0	40	19 829	13
3	Cont	14. 10. 2023 9:59:13	000:10:00	000:30:00	240,0	186		315		36,4	80	39 688	12
4	Cont	4. 10. 2023 10:09:15	000:10:00	000:40:00	250,1	186		316		36,6	121	60 293	12
5	Cont	4. 10. 2023 10:19:17	000:10:00	000:50:00	260,1	186		316		36,9	165	81 708	11
6	Cont	4. 10. 2023 10:29:19	000:10:00	001:00:00	270,1	186		316		37,1	209	103 946	11
7	Int.M	4. 10. 2023 10:40:44	000:11:25	001:00:00						36,6			
8	Int.O	4. 10. 2023 16:50:11	006:09:27	001:00:00			316			36,6			654
9	End	4. 10. 2023 16:50:17	000:00:06	001:00:00						36,6			

Tyre width immediately after end of test(mm): 178,8 - 178,8 - 178,2 - 178,5 - 178,5 - 178,4

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



TEST REPORT No. 2023 - 5347

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/23034
 Škofjeloška cesta 6 Dept.: Moto Kran Task: 10B/2023/BG
 4000 Kranj Project No.: 10B/2023/BG
 Slovenia Application date: 10.10.2023
 Responsible: Mr. Gubanc Report issue date: 24.10.2023
 Test motive: Prototype tyres P-42/23 No.5,6,7,8,9,10,11 (ECE homolog.)

2. Tested sample: Tyre Sort: M Ident. No.: 56930
 Dimension 180/60ZR17 Name: Mitas Sport Force+ RS
 Designation 3, 6 Product: TWS Moto Approval E8 75R 001618
 LI: 75 SS: W IP: 290 kPa PR LR: B Type TL
 Weight: 6,26 kg Measuring rim 5.00x17 DOT: IH3 DOP: 3923

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: 5Jx17H2 Inflation: 320 kPa capped
 Load: 247 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 %
 Undergo cycles: 95 497 Undergo track: 192 km

6. Evaluation: Criterion no defects and circumf.difference before and 6h after test max. ±3,5%
 Uinfl = 3 kPa; Utime +1 s; Uspeed = 2 km/h;
 Uload = 5% (40 - 500 daN), 1% (501 - 30000 daN)
 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. All tests are performed in lab permanent facility. The laboratory is responsible for all the information provided in the report, except the "designation" which is provided by customer.

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



Sample No.: 56930		Dimension: 180/60ZR17		Mitas Sport Force+		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	20.10.2023 16:00:44	000:00:00	000:00:00			320			37,0			654
2	Cont	20.10.2023 16:21:05	000:20:00	000:20:00	125,0	248		310		37,3	42	20 700	17
3	Cont	20.10.2023 16:41:07	000:20:00	000:40:00	250,0	248		312		37,8	125	62 036	15
4	Cont	20.10.2023 16:51:09	000:10:00	000:50:00	265,0	248		312		38,0	169	83 898	15
5	Cont	20.10.2023 16:56:11	000:05:00	000:55:00	280,0	248		313		38,1	192	95 497	14
6	Int M	20.10.2023 16:59:41	000:03:30	000:55:00						37,9			
7	Int O	21.10.2023 6:21:27	013:21:46	000:55:00			319			37,9			654
8	End	21.10.2023 6:21:32	000:00:05	000:55:00						37,9			

Tyre width immediately after end of test(mm): 179,2 - 179,6 - 180,0 - 179,9 - 179,9 - 179,5

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