

Společnost je zapsána v obchodním rejstříku vedeném Krajským soudem v Brně, oddíl B, vložka 818



Zlín 13th March 2024

E8*75R00/20*1646*00

Yokohama TWS Slovenija 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:

150/60-17 MITAS SPORT FORCE+ 66H

with the approval number : **E8 75R - 001646**

date of inspection : **13th March 2024**

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



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 – 001646

4.1.1. Tyre size designation:	150/60-17
4.1.2. Manufacturers name, tyre name:	MITAS, SPORT FORCE+
4.1.3. The category of use:	NORMAL
4.1.4. Structure (diagonal, bias belted, radial):	DIAGONAL
4.1.5. The speed category:	H
4.1.6. The load-capacity index of the tyre:	66
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: 3 POLYESTER SIDEWALL: 2 POLYESTER
4.1.10. The overall dimensions overall section width: overall diameter:	Overall section width: 148.5 mm Overall diameter: 614.0 mm
4.1.11. The rims on which the tyre can be mounted:	3.50x17, 3.75x17, 4.00x17, 4.25x17, 4.50x17
4.1.12. The measuring rim and test rim:	4.50x17
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)

Yokohama TWS Slovenija d.o.o.
Škofjeloška cesta 6,
4000 Kranj, Slovenia

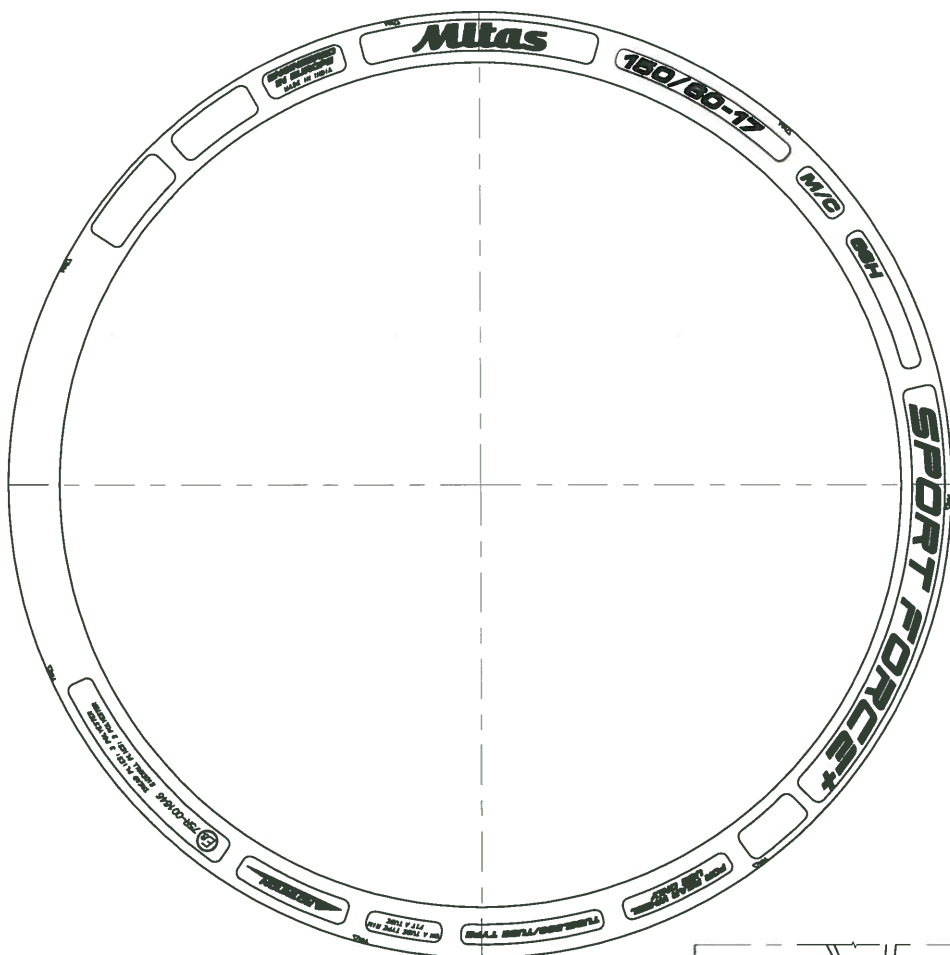
Tyre Manufacturer (2)

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

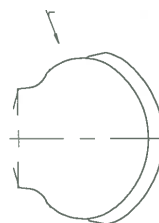
Tyre Manufacturer (3)

Yokohama TWS Czech Republic a.s.
Vavrečkova 7248
760 02 Zlin, Czech Republic

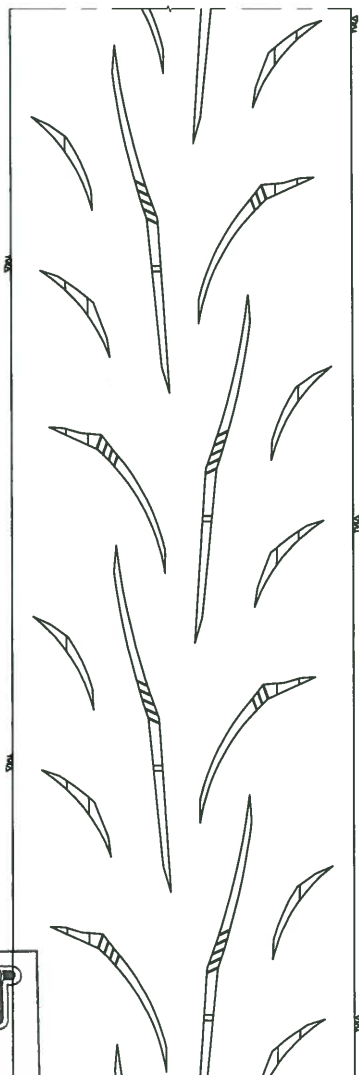




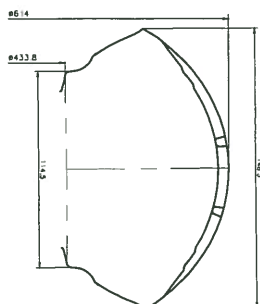
DISPOSITION ON TIRE - TOP HALF OF THE WOULD
(VIEW 1)



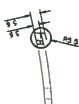
OVERALL (from) MITAS SPORT FORCE+ PATTERN



CROSS SECTION OF MOUNTED TIRE



DISPOSITION FOR LETTERING



Tire for present in use		Tire for present in use	
Make	Model	Make	Model
Mitas	150/80-17	Mitas	150/80-17
Size	150/80-17	Size	150/80-17
Speed	150/80-17	Speed	150/80-17
Weight	150/80-17	Weight	150/80-17
Pressure	150/80-17	Pressure	150/80-17
Temp	150/80-17	Temp	150/80-17
Altitude	150/80-17	Altitude	150/80-17
Humidity	150/80-17	Humidity	150/80-17
Wind	150/80-17	Wind	150/80-17
Other	150/80-17	Other	150/80-17

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

IGT

TEST REPORT No. 2024 - 479

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: Yokohama TWS Slovenia, d.o.o.
 Škofjeloška cesta 6
 4000 Kranj
 Slovenia
 Responsible: ing. Macháčová
 Test motive: Testing of V1 spec., Code: 70001254 (NEW)

Requirement No.: MM/24033
 Dept.: Moto Kranj Task:
 Project No.: 70001254
 Application date: 18.01.2024
 Report issue date: 07.02.2024

2. Tested sample: Tyre Sort: M Ident. No.: 57648
 Dimension 150/60-17 Name: Mitas Sport Force+
 Designation Product: Yokohama TWS I Approval -
 LI: 66 SS: H IP: 290kPa PR LR: B Type TL
 Weight: 5,2 kg Measuring rim 4,25x17 DOT: - DOP: 4723

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: 614 mm
 Overall width: 148,5 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 57648 Tyre size: 150/60-17 Mitas Sport Forc 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
06.02.2024	280	1 929	148,2	148,4	148,5	148,4	148,3	148,3	148,5	614

TEST REPORT No. 2024 - 478

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:	Yokohama TWS Slovenia, d.o.o.	Requirement No.:	MM/24033
	Škofjeloška cesta 6	Dept.:	Moto Kran Task:
	4000 Kranj	Project No.:	70001254
	Slovenia	Application date:	18.01.2024
	Responsible: ing. Macháčová	Report issue date:	06.02.2024
Test motive: Testing of V1 spec., Code: 70001254 (NEW)			

2. Tested sample:	Tyre	Sort:	M	Ident. No.:	57648						
	Dimension	150/60-17	Name:	Mitas Sport Force+							
	Designation		Product:	Yokohama TWS I	Approval -						
	LI:	66	SS:	H	IP:	290 kPa	PR	LR:	B	Type	TL
	Weight:	5,2 kg	Measuring rim	4,25x17	DOT:	-	DOP:	4723			

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

4. Test condition:	Testing machine:	-	Drum:	-	mm	Ambient temperature:	25±5°C			
	Testing rim:		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 24-0478.

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

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



Sample No.: 57648

Size:

150/60-17

Mitas Sport Force+

Method:

KPB-M-003

Date:

05.02.2024

Dimension of approval mark:

diameter of circle:

0 mm

height of letter E:

0 mm

height of number:

0 mm

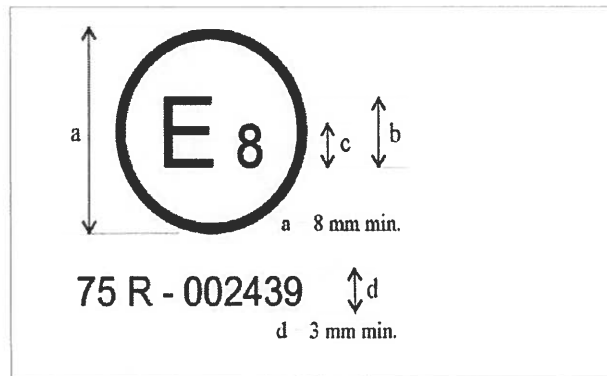
height of text 75R....:

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):

D

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:

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

TEST REPORT No. 2024 - 482

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:	Yokohama TWS Slovenia, d.o.o.	Requirement No.:	MM/24033
	Škofjeloška cesta 6	Dept.:	Moto Kran Task:
	4000 Kranj	Project No.:	70001254
	Slovenia	Application date:	18.01.2024
	Responsible: ing. Macháčová	Report issue date:	12.02.2024
Test motive:		Testing of V1 spec., Code: 70001254 (NEW)	

2. Tested sample:	Tyre	Sort:	M	Ident. No.:	57649	
	Dimension	150/60-17	Name:	Mitas Sport Force+		
	Designation		Product:	Yokohama TWS I	Approval -	
	LI:	66	SS:	H	IP:	290 kPa
	PR	LR:	B	Type	TL	
	Weight:	5,16 kg	Measuring rim	4,25x17	DOT:	-
		DOP:	4723			

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:	350 kPa	capped		
	Load:	191 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: 1,2 %
	Undergo cycles: 81 890 Undergo track: 160 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.: 57649		Dimension:		150/60-17		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	11.02.2024 9:43:55	000:00:00	000:00:00			350			37,6			620
2	Cont	11.02.2024 10:04:01	000:20:00	000:20:00	89,9	194		301		37,8	30	15 584	9
3	Cont	11.02.2024 10:14:03	000:10:00	000:30:00	180,0	194		305		38,3	60	31 018	5
4	Cont	11.02.2024 10:24:06	000:10:00	000:40:00	190,0	194		306		38,6	91	47 183	4
5	Cont	11.02.2024 10:34:08	000:10:00	000:50:00	200,1	193		307		38,8	125	64 152	3
6	Cont	11.02.2024 10:44:10	000:10:00	001:00:00	210,0	193		308		38,9	160	81 890	2
7	Int:M	11.02.2024 10:49:28	000:05:18	001:00:00						38,7			
8	Int:O	11.02.2024 17:08:40	006:19:11	001:00:00			331			38,7			627
9	End	11.02.2024 17:08:43	000:00:03	001:00:00						38,7			

Tyre width immediately after end of test(mm): 149,0 - 149,0 - 149,1 - 148,8 - 149,1 - 148,9

Change of tyre circumference before test and 6h after test (%): 1,18

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



TEST REPORT No. 2024 - 483

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:	Yokohama TWS Slovenia, d.o.o.	Requirement No.:	MM/24033
	Škofjeloška cesta 6	Dept.:	Moto Kran Task:
	4000 Kranj	Project No.:	70001254
	Slovenia	Application date:	18.01.2024
	Responsible: ing. Macháčová	Report issue date:	13.02.2024
Test motive:		Testing of V1 spec., Code: 70001254 (NEW)	

2. Tested sample:	Tyre	Sort:	M	Ident. No.:	57649						
	Dimension	150/60-17	Name:	Mitas Sport Force+							
	Designation		Product:	Yokohama TWS I	Approval -						
	LI:	66	SS:	H	IP:	290 kPa	PR	LR:	B	Type	TL
	Weight:	5,16	kg	Measuring rim	4,25x17	DOT:	-	DOP:	4723		

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:	MT4,50x17 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:	318,0	mm		
	Overall width of tyre at max. speed:	141,0	mm		
Undergo cycles:			Undergo track:		km

6. Evaluation:	Criterion	profil doesn't exceed limit curve
	Uinfl = 3 kPa; Utime +1 s; Uspeed = 2 km/h; Udist=0,7mm	

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, S3-210 km/h
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Approved by: Laboratory quality manager Ing. Petr Husták, Ph.D.



Sample No.: 57649

Dimension:

150/60-17

Mitas Sport Force+

Test:

MDN-M-003

tyre
radius
mm

Measurement of tyre profile

— S1 — S2
— S3 — S4