

ICS 13.020.10
ISBN 978-99945-68-93-2

NAMS 10047:2018

First Edition

SANS 10047:2009

Sixth edition

NAMIBIAN STANDARD

The testing of motor vehicles for roadworthiness

This Namibian standard is the identical implementation of SANS 10047:2009 and is adopted with the permission of the South Africa Bureau of Standards

Published by the Namibian Standards Institution (NSI)
Established by section 2 of the Standards Act, 2005 (Act No 18 of 2005)
Channel Life Tower, M1,
Post Street Mall, P.O. Box 26364 Windhoek, Namibia
Tel +264-61-386400, Fax +264-61-386454, Website: www.nsi.com.na
© NSI



Licensed by NSI to NSI for internal use only
DOWNLOADED:25/06/2020
Single-user licence only, copying and networking prohibited.

NAMS 10047:2018

First Edition

SANS 10047:2009

Sixth edition

National foreword

This Namibian Standard is identical to the South African National Standard SANS 10047:2009 – The testing of motor vehicles for roadworthiness and was approved by NSI TC 10, *Vehicle and Road Safety*, in accordance with procedures of the NSI, in compliance with Annex 3 of the WTO/TBT Agreement.

This NAMS was published in July 2018.

Reference is made on the in 3.4, 3.19, 5.1, 5.2.4, 5.21, 5.26, 5.28, 5.31, 5.55.1, 5.57.1, 5.58.1, 5.58.2, 5.58.5, 5.58.6.3, 5.60.1, 5.60.2.1(c), 6.9, 6.11, 8.6 and A.1 to the "relevant national legislation". In Namibia this means the Road Traffic and Transport Act, 1999 (Act No. 22 of 1999) (as amended from time to time) and its regulations.

Reference is made in 4.7 and 5.57.1 to the "relevant national transport authority" In Namibia means the Department of Transport.

Reference is made in 5.12 to the "relevant national legislation" In Namibia this means regulation 237 of the Road Traffic and Transport Act, 1999 (Act No. 22 of 1999) (as amended from time to time) and its regulations.

Reference is made in 5.20.4 to the "relevant national legislation". In Namibia this means regulation 275 of the Road Traffic and Transport Act, 1999 (Act No. 22 of 1999) (as amended from time to time) and its regulations.

Reference is made in 5.31 to the "the relevant regulation of the relevant national legislation" In Namibia this means paragraphs 2 and 3 of regulation 172 of the Road Traffic and Transport Act, 1999 (Act No. 22 of 1999) (as amended from time to time) and its regulations.

Reference is made in 5.58.12 to the "relevant national legislation. In Namibia this means regulation 194 of the Road Traffic and Transport Act, 1999 (Act No. 22 of 1999) (as amended from time to time) and its regulations.

Reference is made in A.1.7 and A.3.5 to the "relevant national legislation". In Namibia this means regulation 253 of the Road Traffic and Transport Act, 1999 (Act No. 22 of 1999) (as amended from time to time) and its regulations.

Reference is made in A.1.8 to the "relevant national legislation". In Namibia his means regulations 253 and 254 of the Road Traffic and Transport Act, 1999 (Act No. 22 of 1999) (as amended from time to time) and its regulations.

Reference is made in A.1.9 to the "relevant national legislation". In Namibia this means regulation 260 of the Road Traffic and Transport Act, 1999 (Act No. 22 of 1999) (as amended from time to time) and its regulations.

Reference is made in A.1.13, A.1.14 and A.1.15 to the "relevant national legislation". In Namibia this means regulation 256 of the Road Traffic and Transport Act, 1999 (Act No. 22 of 1999) (as amended from time to time) and its regulations.

Reference is made in A.1.16 to the "relevant national legislation". In Namibia this means regulation 160 of the Road Traffic and Transport Act, 1999 (Act No. 22 of 1999) (as amended from time to time) and its regulations.

Reference is made in A.2.5 to the "relevant national legislation". In Namibia this means regulation 254 of the Road Traffic and Transport Act, 1999 (Act No. 22 of 1999) (as amended from time to time) and its regulations.

Reference is made in A.4 to the "relevant national legislation". In Namibia this means regulation 264 of the Road Traffic and Transport Act, 1999 (Act No. 22 of 1999) (as amended from time to time) and its regulations.

Annex A is for information only.

SOUTH AFRICAN NATIONAL STANDARD

The testing of motor vehicles for roadworthiness

**WARNING — This standard can only be used in conjunction
with the relevant national legislation (see foreword).**

Published by SABS Standards Division
1 Dr Lategan Road Groenkloof ☒ Private Bag X191 Pretoria 0001
Tel: +27 12 428 7911 Fax: +27 12 344 1568
www.sabs.co.za

© SABS

SABS

Licensed by NSI to NSI for internal use only

DOWNLOADED:25/06/2020

Single-user licence only, copying and networking prohibited.

SANS 10047:2009

Edition 6

Table of changes

Change No.	Date	Scope

Foreword

This South African standard was approved by National Committee SABS TC 1033, *Roadworthiness of motor vehicles*, in accordance with procedures of the SABS Standards Division, in compliance with annex 3 of the WTO/TBT agreement.

This document was published in December 2009.

This document supersedes SANS 10047:2007 (edition 5.1).

Reference is made on the cover page and in 3.4, 3.19, 5.1, 5.2.4, 5.21, 5.26, 5.28, 5.31, 5.55.1, 5.57.1, 5.58.1, 5.58.2, 5.58.5, 5.58.6.3, 5.60.1, 5.60.2.1(c), 6.9, 6.11, 8.6 and A.1 to the "relevant national legislation". In South Africa this means the National Road Traffic Act, 1996 (Act No. 93 of 1996) (as amended from time to time) and its regulations.

Reference is made in 4.7 and 5.57.1 to the "relevant national transport authority". In South Africa this means the Department of Transport.

Reference is made in 5.5.2, 5.17(g), 5.52(j) and 5.60.2.1(f) to the "relevant national legislation". In South Africa this means the National Land Transport Transition Act, 2000 (Act No. 22 of 2000).

Reference is made in 5.12 to the "relevant national legislation". In South Africa this means regulation 230 of the National Road Traffic Act, 1996 (Act No. 93 of 1996) (as amended from time to time) and its regulations.

Reference is made in 5.20.4 to the "relevant national legislation". In South Africa this means regulation 256 of the National Road Traffic Act, 1996 (Act No. 93 of 1996) (as amended from time to time) and its regulations.

Reference is made in 5.31 to the "the relevant regulation of the relevant national legislation". In South Africa this means paragraphs 2 and 3 of regulation 156 of the National Road Traffic Act, 1996 (Act No. 93 of 1996) (as amended from time to time) and its regulations.

Reference is made in 5.58.12 to the "relevant national legislation". In South Africa this means the Disaster Management Act, 2002 (Act No. 57 of 2002).

Reference is made in A.1.7 and A.3.5 to the "relevant national legislation". In South Africa this means regulation 234 of the National Road Traffic Act, 1996 (Act No. 93 of 1996) (as amended from time to time) and its regulations.

Reference is made in A.1.8 to the "relevant national legislation". In South Africa this means regulations 234 and 235 of the National Road Traffic Act, 1996 (Act No. 93 of 1996) (as amended from time to time) and its regulations.

Reference is made in A.1.9 to the "relevant national legislation". In South Africa this means regulation 241 of the National Road Traffic Act, 1996 (Act No. 93 of 1996) (as amended from time to time) and its regulations.

Reference is made in A.1.13, A.1.14 and A.1.15 to the "relevant national legislation". In South Africa this means regulation 237 of the National Road Traffic Act, 1996 (Act No. 93 of 1996) (as amended from time to time) and its regulations.

Reference is made in A.1.16 to the "relevant national legislation". In South Africa this means regulation 145 of the National Road Traffic Act, 1996 (Act No. 93 of 1996) (as amended from time to time) and its regulations.

Reference is made in A.2.5 to the "relevant national legislation". In South Africa this means regulation 235 of the National Road Traffic Act, 1996 (Act No. 93 of 1996) (as amended from time to time) and its regulations.

Reference is made in A.4 to the "relevant national legislation". In South Africa this means regulation 244 of the National Road Traffic Act, 1996 (Act No. 93 of 1996) (as amended from time to time) and its regulations.

Annex A is for information only.

Licensed by NSI to NSI for internal use only

DOWNLOADED:25/06/2020

Single-user licence only, copying and networking prohibited.

Contents

	Page
Foreword	
1 Scope	5
2 Normative references.....	5
3 Definitions	7
4 Testing procedure	8
4.1 General	8
4.2 Facilities	8
4.3 Cleanliness	9
4.4 Identification.....	9
4.5 Inspection record	9
4.6 Certification of roadworthiness	9
4.7 Circumstances under which a test may be stopped.....	10
5 Rejection criteria for all vehicles	10
5.1 General	10
5.2 Information and registration details	10
5.3 Smoke emission	13
5.4 Road wheels and hubs	13
5.5 Size and type of tyres	14
5.6 Condition of tyres.....	15
5.7 Bumper bars, protective devices (bull bars), bonnets, roof carriers and similar fittings	16
5.8 Wheel flaps	16
5.9 Trailer coupling on drawing vehicle	16
5.10 Coupling on trailer.....	17
5.11 Trailer landing legs	18
5.12 Rear underrun protection devices	18
5.13 Mudguards.....	19
5.14 Cab mounting	19
5.15 Load body or side car	19
5.16 Motor cycle/tricycle/quadrucycle fittings	19
5.17 Safety belts (restraints).....	20
5.18 Doors	21
5.19 Floor and steps	22
5.20 Seats.....	22
5.21 Mirrors.....	23
5.22 View to front and sides	24
5.23 Windows and windscreen	24
5.24 Windscreen wipers (if a windscreen is fitted)	25
5.25 Speedometer	25
5.26 Hooter or audible warning device	25
5.27 Driving controls	25
5.28 Steering wheel	26
5.29 Steering column.....	27
5.30 Handlebars and steering (motor cycles/tricycles/quadrucycles only).....	27
5.31 Air or vacuum warning device of braking systems (where applicable).....	28
5.32 Braking systems — Build-up of air pressure or vacuum (where applicable).....	28
5.33 Hand levers controlling mechanical braking systems (inspection in vehicle).....	28
5.34 Service brake pedal (inspection in vehicle)	29

SANS 10047:2009

Edition 6

5.35	Service brake operation (inspection in vehicle).....	29
5.36	Hand-operated air brake valves (inspection in vehicle).....	29
5.37	Chassis or frame.....	29
5.38	Electrical wiring and equipment.....	30
5.39	Engine.....	30
5.40	Engine and transmission mountings.....	31
5.41	Drive train (motor cycles/tricycles/quadrucycles only).....	31
5.42	Oil leaks.....	31
5.43	Fuel system and fuel tank.....	31
5.44	Suspension units.....	32
5.45	Shock absorbers.....	34
5.46	Stub axles, wheel bearings, control arms and kingpins.....	34
5.47	Stabilizers and anti-roll bars.....	34
5.48	Steering mechanism.....	34
5.49	Power steering.....	35
5.50	Drive train (all vehicles).....	35
5.51	Wheel alignment.....	36
5.52	Braking system — General.....	36
5.53	Braking system — Specific items.....	37
5.54	Trailer parking brake.....	38
5.55	Brakes and braking performance (motor cycles only).....	38
5.56	Braking performance (light and heavy vehicles).....	39
5.57	Dimensions.....	44
5.58	Lamps and lighting.....	52
5.59	Retro-reflectors.....	58
5.60	Use of retro-reflective material.....	60
5.61	Flasher-type direction indicators.....	61
5.62	Safety design.....	62
5.63	Twist-locks for securing containers.....	63
5.64	General safety.....	63
6	Additional rejection criteria for buses.....	63
6.1	General.....	63
6.2	Sides and roof.....	63
6.3	Entrances and exits.....	63
6.4	Seats.....	64
6.5	Windows and windscreen.....	65
6.6	Number of standing passengers.....	65
6.7	Stairs.....	66
6.8	Passageways.....	66
6.9	Number of persons that may be carried.....	66
6.10	Seating on school buses registered before 1 April 1991.....	67
6.11	Number of persons that may be carried on a school bus registered before 1 April 1991 ...	68
7	Inspection record for buses.....	68
8	Additional rejection criteria for minibuses.....	69
8.1	General.....	69
8.2	Sides and roof.....	69
8.3	Entrances and exits.....	69
8.4	Seats.....	70
8.5	Windows and windscreen.....	70
8.6	Number of persons that may be carried.....	71

9	Inspection record for minibuses	71
Annex A (informative)	Step-by-step procedure to establish the permissible loadings and to check the information plates for correctness.....	72
	Bibliography	74
	Index.....	75