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DIRECTIVE 2009/40/EC OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 6 May 2009 on roadworthiness tests for motor vehicles and their trailers

(Recast)

(Text with EEA relevance)

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(Recast)

(Text with EEA relevance)

THE EUROPEAN PARLIAMENT AND THE COUNCIL OF THE EUROPEAN UNION,

Having regard to the Treaty establishing the European Community, and in particular Article 71 thereof,

Having regard to the proposal from the Commission,

Having regard to the opinion of the European Economic and Social Committee (1),

Having consulted the Committee of the Regions,

Acting in accordance with the procedure laid down in Article 251 of the Treaty (2),

Whereas:

 Council Directive 96/96/EC of 20 December 1996 on the approximation of the laws of the Member States relating to roadworthiness tests for motor vehicles and their trailers (3) has been substantially amended several times (4). Since further amendments are to be made, it should be recast in the interests of clarity.

- (2) Within the framework of the common transport policy, certain road traffic within the Community should operate under the most favourable circumstances as regards both safety and competitive conditions applying to carriers in the Member States.
- (3) The growth of road traffic and the resultant increase in danger and nuisances present all Member States with safety problems of a similar nature and seriousness.
- (4) Testing during the lifecycle of a vehicle should be relatively simple, quick and inexpensive.
- (5) The minimum Community standards and methods to be used for testing the items listed in this Directive should therefore be defined in separate Directives.
- (6) It is necessary to adapt rapidly to technical progress the standards and methods laid down in the separate Directives and, in order to facilitate implementation of the measures required for this purpose, to establish a procedure for close cooperation between the Member States and the Commission within a committee on the adaptation to technical progress of the Directive on roadworthiness tests for motor vehicles and their trailers.
- (7) With regard to braking systems it is difficult to set values for such matters as air pressure settings and build-up times, given the variance in the equipment and methods within the Community.
- (8) It is recognised by all concerned with vehicle testing that the method of testing and, in particular, whether the vehicle is tested in a laden, part-laden or unladen condition, can influence the degree of confidence testers have as to the roadworthiness of the braking system.
- (9) The prescription of brake force reference values for various laden conditions for each vehicle model should help restore that confidence. This Directive should enable testing under this regime as an alternative to testing against minimum performance values for each vehicle category.
- (10) With regard to braking systems the scope of this Directive should relate in the main to vehicles which have been granted component type-approval in accordance with Council Directive 71/320/EEC of 26 July 1971 on the approximation of the laws of the Member States relating to the braking devices of certain categories of motor vehicles and their trailers ($_{5}$) although it is recognised that certain types of vehicle have been granted such approval in accordance with national standards which may differ from the requirements of that Directive.

- (11) Member States may extend the scope of the braking test to include vehicles or test items outside the scope of this Directive.
- (12) Member States may make the braking test more stringent or increase the frequency of testing.
- (13) This Directive is intended to maintain emissions at a low level throughout the useful life of a vehicle by means of regular exhaust emission tests and to ensure that vehicles which are major polluters are withdrawn from service until they are brought to a proper state of maintenance.
- (14) Bad tuning and inadequate maintenance are detrimental not only to the engine but also to the environment since they cause increased pollution and fuel consumption. It is important that environment-friendly transport be developed.
- (15) In the case of compression-ignition (diesel) engines measurement of the opacity of the exhaust fumes is deemed to be an adequate indicator of the condition of the vehicle's state of maintenance, with regard to emissions.
- (16) For positive-ignition (petrol) engines, measurement of carbon monoxide emissions from the exhaust pipe when the engine is idling is deemed to be an adequate indicator of the vehicle's state of maintenance, with regard to emissions.
- (17) The failure rate in exhaust-emission tests for vehicles which have not been regularly maintained may well be high.
- (18) In the case of petrol-engined vehicles for which the type-approval standards specify that they must be equipped with advanced emission control systems such as three-way catalytic converters which are lambda-probe controlled, the regular emission test standards must be more stringent than for conventional vehicles.
- (19) Directive 98/69/EC of the European Parliament and of the Council of 13 October 1998 relating to measures to be taken against air pollution by emissions from motor vehicles (<u>6</u>) requires the introduction, from 2000, of on-board diagnostic (OBD) systems for petrol-driven cars and light commercial vehicles to monitor the functioning of the vehicle's emission control system in service. Similarly, from 2003, OBD systems are required also for new diesel vehicles.
- (20) Member States may, if appropriate, exclude from the scope of this Directive certain vehicles that are considered to be of historic interest. They may also establish their own testing standards for such vehicles. However, such a right must not lead to the application of stricter standards than those which the vehicles concerned were originally designed to meet.

- (21) Simple, common diagnostic systems are available that can be used by testing organisations to test the vast majority of the speed limiters equipped. For those vehicles that are not accessible by such readily available diagnostic tools, the authorities will need to either make use of available equipment from the original vehicle manufacturer or provide for the acceptance of appropriate test certification from the vehicle manufacturer or its franchise organisation.
- (22) Periodic verification of the correct functioning of the speed limiter should be facilitated for the vehicles that are fitted with the new recording equipment (digital tachograph) in accordance with Council Regulation (EC) No 2135/98 of 24 September 1998 amending Regulation (EEC) No 3821/85 on recording equipment in road transport and Directive 88/599/EEC concerning the application of Regulations (EEC) No 3820/85 and (EEC) No 3821/85 (7). Since the year 2003, new vehicles are fitted with such equipment.
- (23) Technical requirements relating to taxis and ambulances are similar to those for private cars. The items to be checked may therefore be similar, although the frequency of tests is different.
- (24) Each Member State must ensure, within its own area of jurisdiction, that roadworthiness tests are conducted methodically and to a high standard.
- (25) The Commission should verify the practical application of this Directive.
- (26) Since the objectives of the proposed action, namely to harmonise the rules on roadworthiness tests, to prevent distortion of competition as between road hauliers and to guarantee that vehicles are properly checked and maintained, cannot be achieved by the Member States acting alone and can therefore, by reason of the scale of the action, be better achieved at Community level, the Community may adopt measures, in accordance with the principle of subsidiarity as set out in Article 5 of the Treaty. In accordance with the principle of proportionality, as set out in that Article, this Directive does not go beyond what is necessary in order to achieve those objectives.
- (27) The measures necessary for the implementation of this Directive should be adopted in accordance with Council Decision 1999/468/EC of 28 June 1999 laying down the procedures for the exercise of implementing powers conferred on the Commission (<u>*</u>).
- (28) In particular, the Commission should be empowered to define certain minimum standards and methods for testing and to adapt them to technical progress. Since those measures are of general scope and are designed to amend non-essential elements of this Directive by supplementing it with new non-essential elements, they must be adopted in accordance with the regulatory procedure with scrutiny provided for in Article 5a of Decision 1999/468/EC.

(29) This Directive should be without prejudice to the obligations of the Member States relating to the time limits for transposition into national law of the Directives set out in Annex III, Part B,

HAVE ADOPTED THIS DIRECTIVE:

CHAPTER I

GENERAL PROVISIONS

Article 1

1. In each Member State, motor vehicles registered in that State and their trailers and semi-trailers shall undergo periodic roadworthiness tests in accordance with this Directive.

2. The categories of vehicles to be tested, the frequency of the roadworthiness tests and the items which must be tested are listed in Annexes I and II.

Article 2

The roadworthiness tests provided for in this Directive shall be carried out by the Member State, or by a public body entrusted with the task by the State or by bodies or establishments designated and directly supervised by the State, including duly authorised private bodies. In particular, where establishments designated as vehicle testing centres also perform motor vehicle repairs, Member States shall make every effort to ensure the objectivity and high quality of the vehicle testing.

Article 3

1. Member States shall take such measures as they deem necessary to make it possible to prove that a vehicle has passed a roadworthiness test complying with at least the provisions of this Directive.

These measures shall be notified to the other Member States and to the Commission.

2. Each Member State shall, on the same basis as if it had itself issued the proof, recognise the proof issued in another Member State showing that a motor vehicle registered on the territory of that other State, together with its trailer or semi-trailer, has passed a roadworthiness test complying with at least the provisions of this Directive.

3. Member States shall apply suitable procedures to establish, as far as practicable, that the brake performance of the vehicles registered in their territory meets the requirements specified in this Directive.

CHAPTER II

EXCEPTIONS

Article 4

1. Member States shall have the right to exclude from the scope of this Directive vehicles belonging to the armed forces, the forces of law and order and the fire service.

2. Member States may, after consulting the Commission, exclude from the scope of this Directive, or subject to special provisions, certain vehicles operated or used in exceptional conditions and vehicles which are never, or hardly ever, used on public highways, including vehicles of historic interest

which were manufactured before 1 January 1960 or which are temporarily withdrawn from circulation.

3. Member States may, after consulting the Commission, set their own testing standards for vehicles considered to be of historic interest.

Article 5

Notwithstanding the provisions of Annexes I and II, Member States may:

(a) bring forward the date for the first compulsory roadworthiness test and, where appropriate, require the vehicle to be submitted for testing prior to registration;

(b) shorten the interval between two successive compulsory tests;

(c) make the testing of optional equipment compulsory;

(d) increase the number of items to be tested;

(e) extend the periodic test requirement to other categories of vehicles;

(f) prescribe special additional tests;

(g) require for vehicles registered on their territory higher minimum standards for braking efficiency than those specified in Annex II and include a test on vehicles with heavier loads, provided such requirements do not exceed those of the vehicle's original type-approval.

CHAPTER III

FINAL PROVISIONS

Article 6

1. The Commission shall adopt the separate Directives necessary to define the minimum standards and methods for testing the items listed in Annex II, as well as any amendments necessary to adapt those standards and methods to technical progress.

2. Those measures, designed to amend non-essential elements of this Directive by supplementing it, shall be adopted in accordance with the regulatory procedure with scrutiny referred to in Article 7(2).

Article 7

1. The Commission shall be assisted by a committee on the adaptation to technical progress of the Directive on roadworthiness tests for motor vehicles and their trailers.

2. Where reference is made to this paragraph, Article 5a(1) to (4) and Article 7 of Decision 1999/468/EC shall apply, having regard to the provisions of Article 8 thereof.

Article 8

No later than three years after the introduction of regular testing of speed limitation devices, the Commission shall examine whether, on the basis of the experience gained, the tests laid down are sufficient to detect defective or manipulated speed limitation devices or whether the rules need to be amended.

Article 9

Member States shall communicate to the Commission the texts of the main provisions of national law which they adopt in the field governed by this Directive.

Article 10

Directive 96/96/EC, as amended by the acts listed in Annex III, Part A, is repealed, without prejudice to the obligations of the Member States relating to the time limits for transposition into national law of the Directives set out in Annex III, Part B.

References to the repealed Directive shall be construed as references to this Directive and shall be read in accordance with the correlation table in Annex IV.

Article 11

This Directive shall enter into force on the 20th day following its publication in the *Official Journal of the European Union*.

Article 12

This Directive is addressed to the Member States.

ANNEXI

CATEGORIES OF VEHICLES SUBJECT TO ROADWORTHINESS TESTS AND FREQUENCY OF THE TESTS

Categories of vehicle	Frequency of tests
1. Motor vehicles used for the carriage of passengers and with more than eight seats, excluding the driver's seat	One year after the date on which the vehicle was first used, and thereafter annually
2. Motor vehicles used for the carriage of goods and having a maximum permissible mass exceeding3 500 kg	One year after the date on which the vehicle was first used, and thereafter annually
3. Trailers and semi-trailers with a maximum permissible mass exceeding 3 500 kg	One year after the date on which the vehicle was first used, and thereafter annually
4. Taxis, ambulances	One year after the date on which the vehicle was first used, and

	thereafter annually
5. Motor vehicles having at least four wheels, normally used for the road carriage of goods and with a maximum permissible mass not exceeding 3 500 kg, excluding agricultural tractors and machinery	Four years after the date on which the vehicle was first used, and thereafter every two years
6. Motor vehicles having at least four wheels, used for the carriage of passengers and with not more than eight seats excluding the driver's seat	Four years after the date on which the vehicle was first used, and thereafter every two years

▼M1

ANNEX II

ITEMS TO BE COMPULSORY TESTED

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- 7. Other equipments
- 8. Nuisance

9. Supplementary tests for passenger carrying vehicles M2, M3

1. INTRODUCTION

This Annex identifies the vehicle systems and components to be tested; it details the method of testing them and the criteria to be used when determining whether the condition of the vehicle is acceptable.

Where the vehicle is found to be defective with regard to the test items listed, the competent authorities in the Member States must adopt a procedure for setting the conditions under which the vehicle may be used before passing another roadworthiness test.

The test must cover at least the items listed below, provided that these are related to the equipment of the vehicle being tested in the Member State concerned.

The tests should be carried out using techniques and equipment currently available without the use of tools to dismantle or remove any part of the vehicle.

All the items listed should be considered as mandatory at a periodic test of vehicles, except those marked with the indication (X), which are related to the condition of the vehicle and its suitability for use on the road but which are not considered essential in a periodic test.

'Reasons for failure' do not apply in cases where they refer to requirements which were not prescribed in the relevant vehicle approval legislation at the time of first registration, first entry into service or retrofitting requirements.

Where a method of inspection is given as visual, it means that in addition to looking at the items, the inspector should, if appropriate, also handle them, evaluate noise or use any other appropriate means of inspection without the use of equipment.

2. SCOPE OF INSPECTION

The inspection shall cover at least the items listed below, provided that these are related to the installed equipment of the vehicle being tested.

- (0) Identification of the vehicle;
- (1) Braking equipment;
- (2) Steering;
- (3) Visibility;
- (4) Lighting equipment and parts of electric system;
- (5) Axles, wheels, tyres, suspension;
- (6) Chassis and chassis attachments;
- (7) Other equipment;
- (8) Nuisance,
- (9) Supplementary tests for passenger carrying vehicles M2 and M3
- 3. ROADWORTHINESS CERTIFICATE

The vehicle operator or driver must be notified in writing of the defects, the result of the test and the legal consequences.

Roadworthiness certificates issued in case of mandatory periodic vehicle tests shall cover at least the following elements:

(1) VIN number

(2) registration plate number and country symbol of state of registration

- (3) place and date of the test
- (4) odometer reading at time of the test if available
- (5) vehicle class if available

(6) identified defects (it is recommended to follow the numerical order of Paragraph 5 of this Annex) and its category

- (7) overall assessment of the vehicle
- (8) date of next periodical test (if this information is not provided by other means)

(9) name of inspection organisation and signature or identification of the inspector responsible for the test

4. MINIMUM INSPECTION REQUIREMENTS

The inspection shall cover at least the items and use the minimum standards and methods listed below. Reasons for failure are examples of defects that may be detected.

Item	Method	reasons for failure
0. IDENTIFICATIC	ON OF THE VEHI	CĹE
0.1. Registration number plates (if needed by requirements) <u>(</u>	Visual inspection	 (a) Number plate(s) missing or so insecure/fixed that it is (they are) likely to fall off. (b) Inscription missing or illegible. (c) Not in accordance with vehicle documents or records.
0.2. Vehicle identification chassis/serial	Visual inspection	(a) Missing or can not be found.(b) Incomplete,

1		.11 .1 1
number		illegible.
		(c) Not in
		accordance with
		vehicle
		documents or
		records.
1. BRAKING EQUII	PMENT	
1.1. Mechanical con	dition and operat	ion
1.1.1. Service brake	Visual	(a) Pivot too
pedal/hand lever	inspection of	tight.
pivot	the components	(b) Excessive
	while the	wear or play.
	braking system	li our or proje
	is operated.	
	<i>Note</i> : Vehicles	
	with power-	
	assisted braking	
	systems should	
	be inspected	
	with the engine switched off.	
	switched off.	
1.1.2. Pedal/hand	Visual	(a) Excessive or
lever condition and	inspection of	insufficient
travel of the brake	the components	reserve travel.
operating device	while the	(b) Brake control
	braking system	not releasing
	is operated	correctly.
	<i>Note</i> : Vehicles	(a) Anti alin
	with power-	(c) Anti-slip provision on
	assisted braking	brake pedal
	systems should	missing, loose or
	be inspected	worn smooth.
	with the engine	
	switched off.	
1.1.3. Vacuum	Visual	(a) Insufficient
pump or	inspection of	pressure/vacuum
compressor and	the components	to give assistance
reservoirs	at normal	for at least two
	working	brake applications
	pressure. Check	after the warning
	time required	device has
	for vacuum or	operated (or
	air pressure to	gauge shows an

	reach safe working value and function of warning device, multi-circuit protection valve and pressure relief valve.	unsafe reading). (b) Time taken to build up air pressure/vacuum to safe working value not in accordance with the requirements () (c) Multi-circuit protection valve or pressure relief valve not working. (d) Air leak causing a noticeable drop in pressure or audible air leaks. (e) External damage likely to affect the function of the
1.1.4. Low pressure warning gauge or indicator	Functional check	braking system. Malfunctioning or defective gauge or indicator.
1.1.5. Hand operated brake control valve	Visual inspection of the components while the braking system is operated.	 (a) Control cracked, damaged or excessively worn. (b) Control insecure on valve or valve insecure.
		(c) Looseconnections orleaks in system.(d) Unsatisfactoryoperation.
1.1.6. Parking brake activator, lever control, parking brake	Visual inspection of the components while the	(a) Ratchet not holding correctly.(b) Excessive

ratchet, electronic	braking system	wear at lever
parking brake	is operated.	pivot or in ratcher mechanism.
		(c) Excessive movement of
		lever indicating
		incorrect
		adjustment.
		(d) Activator
		missing, damaged or inoperative
		(e) Incorrect
		functioning,
		warning indicator
		shows
		malfunction
1.1.7. Braking	Visual	(a) Valve
valves (foot valves,	inspection of	damaged or excessive air leak.
unloaders, governors)	the components while the	excessive air leak.
governors)	braking system	(b) Excessive oil
	is operated.	discharge from
		compressor.
		(c) Valve
		insecure or inadequately
		mounted.
		(d) Hydraulic
		fluid discharge or
		leak.
1.1.8. Couplings	Disconnect and	(a) Tap or self
for trailer brakes	reconnect	sealing valve
(electrical and	braking system	defective.
pneumatic)	coupling between towing	(b) Tap or valve
	vehicle and	insecure or
	trailer.	inadequately
		mounted.
		(c) Excessive leaks.
		(d) Not
		functioning
		correctly

storage reservoir pressure tank	inspection.	damaged, corroded or leaking.
		(b) Drain device inoperative.
		(c) Tank insecure or inadequately mounted.
1.1.10. Brake servo units, master cylinder (hydraulic	Visual inspection of the components	(a) Defective or ineffective servo unit.
systems)	while the braking system is operated.	(b) Master cylinder defective or leaking.
		(c) Master cylinder insecure.
		(d) Insufficient brake fluid.
		(e) Master cylinder reservoir cap missing.
		(f) Brake fluid warning light illuminated or defective.
		(g) Incorrect functioning of brake fluid level warning device.
1.1.11. Rigid brake pipes	Visual inspection of the components	(a) Imminent risk of failure or fracture.
	while the braking system is operated.	(b) Pipes or connections leaking.
		(c) Pipes damaged or excessively corroded.
		(d) Pipes misplaced.

1.1.12. Flexible brake hoses	Visual inspection of the components while the braking system is operated.	 (a) Imminent risk of failure or fracture. (b) Hoses damaged, chafing, twisted or too short (c) Hoses or connections leaking. (d) Hoses bulging under pressure. (e) Hoses porous.
1.1.13. Brake linings and pads	Visual inspection.	 (a) Lining or pad excessively worn. (b) Lining or pad contaminated (oil, grease etc.). (c) Lining or pad missing
1.1.14. Brake drums, brake discs	Visual inspection.	 (a) Drum or disc excessively worn, excessively worn, excessively scored, cracked, insecure or fractured. (b) Drum or disc contaminated (oil, grease, etc.) (c) Drum or disc missing (d) Back plate insecure.
1.1.15. Brake cables, rods, levers, linkages	Visual inspection of the components while the braking system is operated.	 (a) Cable damaged or knotted. (b) Component excessively worn or corroded. (c) Cable, rod or

		joint insecure.
		(d) Cable guide defective.
		(e) Restriction to free movement of the braking system.
		(f) Abnormal movement of the levers/linkage indicating maladjustment or excessive wear.
1.1.16. Brake	Visual	(a) Actuator
actuators (including spring brakes or	inspection of the components	cracked or damaged.
hydraulic cylinders)	while the braking system is operated.	(b) Actuator leaking.
		(c) Actuator insecure or inadequately mounted.
		(d) Actuator excessively corroded.
		(e) Insufficient or excessive travel of operating piston or diaphragm mechanism.
		(f) Dust cover missing or excessively damaged.
1.1.17. Load	Visual	(a) Defective
sensing valve	inspection of the components while the braking system is operated	linkage. (b) Linkage incorrectly adjusted.
		(c) Valve seized or inoperative.
		(d) Valve

		missing.
		(e) Missing data plate.
		(f) Data illegible or not in accordance with requirements <u>(</u>)
1.1.18. Slack adjusters and indicators	Visual inspection.	 (a) Adjuster damaged, seized or having abnormal movement, excessive wear or incorrect adjustment. (b) Adjuster defective. (c) Incorrectly installed or replaced.
1.1.19. Endurance braking system (where fitted or required)	Visual inspection.	 (a) Insecure connectors or mountings. (b) System obviously defective or missing.
1.1.20. Automatic operation of trailer brakes	Disconnect brake coupling between towing vehicle and trailer.	Trailer brake does not apply automatically when coupling disconnected.
1.1.21. Complete braking system	Visual inspection	(a) Other system devices (e.g. anti- freeze pump, air dryer, etc.) damaged externally or excessively corroded in a way that adversely affects the braking system.

		 (b) Leakage of air or anti-freeze. (c) Any component insecure or inadequately mounted. (d) Inappropriate repair or modification to any component (<u>1)</u>
1.1.22. Test connections (where fitted or required)	Visual inspection	(a) Missing.(b) Damaged, unusable or leaking.
1.2. Service braking	performance and	efficiency
1.2.1. Performance	during a test on a static brake testing machine or, if impossible during a road test apply the brakes progressively up to maximum effort.	 (a) Inadequate braking effort on one or more wheels. (b) Braking effort from any wheel is less than 70 % of maximum effort recorded from the other wheel on the same axle. Or in the case of testing on the road, the vehicle deviates excessively from a straight line. (c) No gradual variation in brake effort (grabbing). (d) Abnormal lag in brake operation of any wheel. (e) Excessive fluctuation of brake force

1.2.2. Efficiency	Test with a static brake testing machine or, if one cannot be used for technical reasons, by a road test using a recording decelerometer. Vehicles or a trailer with a maximum permissible mass exceeding 3 500 kg has to be inspected following the standards given by ISO 21069 or equivalent methods. Road tests should be carried out under dry conditions on a flat, straight road.	during each complete wheel revolution. Does not give at least the minimum figure as follows Vehicles registered first time after entry into force of this Directive: Category N1: 50 %, Category M2 and M3: 50 %, Category N2 and N3: 50 %, Category O2 (XX) (1, 03 and 04: for semi- trailers: 45 % for draw-bar trailers: 50 % Vehicles registered before entry into force of this Directive: Category M1: 45 % Category M2 and
		Category M1, M2 and M3: 50 % <u>(2)</u>
		N3: 43 % (3) Category O2 (XX) (1. 03 and 04: 40 % (4)
		Other categories

		(XX) <u>()</u>
		— Categories L (both brakes):
		— Category L1e: 42 %
		— Category L2e, L6e: 40 %
		— Category L3e: 50 %
		— Category L4e: 46 %
		— Category L5e, L7e: 44 %
		— Categories L (rear wheel brake):
		— all categories: 25 %
1.3. Secondary (eme efficiency (if met by	0 1	performance and
1.3.1. Performance	If the secondary braking system is separate from the service	(a) Inadequate braking effort on one or more wheels.
	braking system, use the method specified in 1.2.1.	(b) Braking effort from any wheel is less than 70 % of maximum effort recorded from another wheel on the same axle specified. Or in the case of testing on the road, the vehicle deviates excessively from a straight line.
		0

		effort (grabbing).
1.3.2. Efficiency	If the secondary braking system is separate from the service braking system, use the method specified in 1.2.2.	Braking effort less than 50 % (5) of the service brake performance defined in section 1.2.2 in relation to the maximum authorized mass or, in the case of semi-trailers, to the sum of the authorized axel loads (except L1e and L3e).
1.4. Parking braking	g performance and	l efficiency
1.4.1. Performance	Apply the brake during a test on a static brake testing machine and/or during a road test with a decelerometer.	Brake inoperative on one side or in the case of testing on the road, the vehicle deviates excessively from a straight line.
1.4.2. Efficiency	Test with a static brake testing machine or by a road test using either an indicating or recording decelerometer or with the vehicle on a slope of known gradient. Goods vehicles should, if possible, be tested laden.	Does not give at least for all vehicles a braking ratio of 16 % in relation to the maximum authorized mass, or, for motor vehicles, of 12 % in relation to the maximum authorized combination mass of the vehicle, whichever is the greater (except L1e and L3e).
1.5. Endurance braking system	Visual inspection and,	(a) No gradual variation of

performance	where possible test whether the system functions.	efficiency (not applicable to exhaust brake systems). (b) System not
1.6. Anti-lock braking system (ABS)	Visual inspection and inspection of warning device.	functioning. (a) Warning device malfunctioning. (b) Warning device shows system malfunction.
		 (c) Wheel speed sensors missing or damaged (d) Wirings damaged (e) Other components missing or damaged
1.7. Electronic brake system (EBS)	Visual inspection of warning device.	 (a) Warning device malfunctioning. (b) Warning device shows system malfunction.
2. STEERING	- 	-
2.1. Mechanical con	dition	
2.1.1. Steering gear condition	With the vehicle over a pit or on a hoist and with the road wheels off the ground or on turn tables,	 (a) Roughness in operation of gear. (b) Sector shaft twisted or splines worn. (c) Excessive
	rotate the steering wheel from lock to lock. Visual	wear in sector shaft. (d) Excessive

		_
	inspection of	movement of
	the operation of	sector shaft.
	the steering	(e) Leaking.
	gear.	
2.1.2. Steering gear	With vehicle on	(a) Steering gear
casing attachment	a pit or hoist	casing not
0	and the weight	properly attached.
	of the vehicle	
	road wheels on	(b) Elongated
	the ground,	fixing holes in
	rotate	chassis.
	steering/handle	(c) Missing or
	bar wheel	fractured fixing
	clock-wise and	bolts.
	anticlockwise or	(d) Steering gear
	using a specially	casing fractured.
	adapted wheel	cusing nuccurcu.
	play detector.	
	Visual	
	inspection of the attachment	
	of gear casing to	
	chassis.	
	C1183515.	
2.1.3. Steering	With the	(a) Relative
111	1 • 1	
linkage condition	vehicle over a	movement
linkage condition	pit or on a hoist	movement between
linkage condition	pit or on a hoist and with the	between components
linkage condition	pit or on a hoist and with the road wheel on	between components which should be
linkage condition	pit or on a hoist and with the road wheel on ground, rock	between components
linkage condition	pit or on a hoist and with the road wheel on ground, rock steering wheel	between components which should be
linkage condition	pit or on a hoist and with the road wheel on ground, rock steering wheel clockwise and	between components which should be fixed.
linkage condition	pit or on a hoist and with the road wheel on ground, rock steering wheel clockwise and anti-clockwise	between components which should be fixed. (b) Excessive wear at joints.
linkage condition	pit or on a hoist and with the road wheel on ground, rock steering wheel clockwise and anti-clockwise or using a	between components which should be fixed. (b) Excessive wear at joints. (c) Fractures or
linkage condition	pit or on a hoist and with the road wheel on ground, rock steering wheel clockwise and anti-clockwise or using a specially	between components which should be fixed. (b) Excessive wear at joints. (c) Fractures or deformation of
linkage condition	pit or on a hoist and with the road wheel on ground, rock steering wheel clockwise and anti-clockwise or using a specially adapted wheel	between components which should be fixed. (b) Excessive wear at joints. (c) Fractures or
linkage condition	pit or on a hoist and with the road wheel on ground, rock steering wheel clockwise and anti-clockwise or using a specially	between components which should be fixed. (b) Excessive wear at joints. (c) Fractures or deformation of any component. (d) Absence of
Inkage condition	pit or on a hoist and with the road wheel on ground, rock steering wheel clockwise and anti-clockwise or using a specially adapted wheel play detector.	between components which should be fixed. (b) Excessive wear at joints. (c) Fractures or deformation of any component.
Inkage condition	pit or on a hoist and with the road wheel on ground, rock steering wheel clockwise and anti-clockwise or using a specially adapted wheel play detector. Visual	 between components which should be fixed. (b) Excessive wear at joints. (c) Fractures or deformation of any component. (d) Absence of locking devices.
Inkage condition	pit or on a hoist and with the road wheel on ground, rock steering wheel clockwise and anti-clockwise or using a specially adapted wheel play detector. Visual inspection of	between components which should be fixed. (b) Excessive wear at joints. (c) Fractures or deformation of any component. (d) Absence of locking devices. (e) Misalignment
Inkage condition	pit or on a hoist and with the road wheel on ground, rock steering wheel clockwise and anti-clockwise or using a specially adapted wheel play detector. Visual inspection of steering	between components which should be fixed. (b) Excessive wear at joints. (c) Fractures or deformation of any component. (d) Absence of locking devices. (e) Misalignment of components
Inkage condition	pit or on a hoist and with the road wheel on ground, rock steering wheel clockwise and anti-clockwise or using a specially adapted wheel play detector. Visual inspection of steering components for	between components which should be fixed. (b) Excessive wear at joints. (c) Fractures or deformation of any component. (d) Absence of locking devices. (e) Misalignment
Inkage condition	pit or on a hoist and with the road wheel on ground, rock steering wheel clockwise and anti-clockwise or using a specially adapted wheel play detector. Visual inspection of steering components for wear, fractures	between components which should be fixed. (b) Excessive wear at joints. (c) Fractures or deformation of any component. (d) Absence of locking devices. (e) Misalignment of components (e.g. track rod or drag link).
Inkage condition	pit or on a hoist and with the road wheel on ground, rock steering wheel clockwise and anti-clockwise or using a specially adapted wheel play detector. Visual inspection of steering components for wear, fractures	between components which should be fixed. (b) Excessive wear at joints. (c) Fractures or deformation of any component. (d) Absence of locking devices. (e) Misalignment of components (e.g. track rod or drag link). (f) Inappropriate
Inkage condition	pit or on a hoist and with the road wheel on ground, rock steering wheel clockwise and anti-clockwise or using a specially adapted wheel play detector. Visual inspection of steering components for wear, fractures	between components which should be fixed. (b) Excessive wear at joints. (c) Fractures or deformation of any component. (d) Absence of locking devices. (e) Misalignment of components (e.g. track rod or drag link).
Inkage condition	pit or on a hoist and with the road wheel on ground, rock steering wheel clockwise and anti-clockwise or using a specially adapted wheel play detector. Visual inspection of steering components for wear, fractures	between components which should be fixed. (b) Excessive wear at joints. (c) Fractures or deformation of any component. (d) Absence of locking devices. (e) Misalignment of components (e.g. track rod or drag link). (f) Inappropriate repair or

		missing, damaged or severely deteriorated.
2.1.4. Steering linkage operation	With the vehicle over a pit or on a hoist and with the road wheels on ground and the engine running (power steering), rotate steering wheel from lock to lock. Visual inspection of movement of linkages.	(a) Moving steering linkage fouling a fixed part of chassis.(b) Steering stops not operating or missing.
2.1.5. Power steering	Check steering system for leaks and hydraulic fluid reservoir level (if visible). With the road wheels on ground and with the engine running, check that the power steering system is operating.	 (a) Fluid leak. (b) Insufficient fluid. (c) Mechanism not working. (d) Mechanism fractured or insecure. (e) Misalignment or fouling of components. (f) Inappropriate repair or modification. (g) Cables/hoses damaged, excessively corroded.
2.2. Steering wheel	, column and hand	lle bar
2.2.1. Steering wheel/handle bar condition	With the road wheels on the ground, rock steering wheel from side to side at right angles	(a) Relative movement between steering wheel and column indicating

	to column and apply slight downward and upward pressure. Visual inspection of play.	looseness. (b) Absence of retaining device on steering wheel hub (c) Fracture or looseness of steering wheel hub, rim or spokes
2.2.2. Steering column/yokes and forks	With the vehicle over a pit or on a hoist and the mass of the vehicle on the ground, push and pull the steering wheel in line with column, push steering wheel/handle bar in various directions at right angles to the column/forks. Visual inspection of play, and condition of flexible couplings or universal joints.	 (a) Excessive movement of centre of steering wheel up or down. (b) Excessive movement of top of column radially from axis of column. (c) Deteriorated flexible coupling. (d) Attachment defective. (e) inappropriate repair or modification
2.3. Steering play	With the vehicle over a pit or on a hoist, the mass of the vehicle on the road-wheels, the engine running for vehicles with power steering and with the road wheels in the straight-	Free play in steering excessive (for example movement of a point on the rim exceeding one fifth of the diameter of the steering wheel or not in accordance with the requirements <u>()</u> .

	ahead position, lightly turn the steering wheel clockwise and anti-clockwise as far as possible without moving the road wheels. Visual inspection of free movement.	
2.4. Wheel alignment (X) <u>(</u>	Check alignment of steered wheels with suitable equipment.	Alignment not in accordance with vehicle manufacturer's data or requirements <u>()</u>
2.5. Trailer steered axle turntable	Visual inspection or using a specially adapted wheel play detector	 (a) Component damaged or cracked. (b) Excessive play. (c) Attachment defective.
2.6. Electronic Power Steering (EPS)	Visual inspection and consistency check between the angle of the steering wheel and the angle of the wheels when switching on/off the engine	 (a) EPS Malfunction Indicator Lamp (MIL) indicates any kind of failure of the system. (b) Inconsistency between the angle of the steering wheel and the angle of the wheels. (c) power assistance not working
3. VISIBILITY		
3.1. Field of vision	Visual inspection from	Obstruction within driver's

	driving seat.	field of view that materially affects his view in front or to the sides.
3.2. Condition of glass	Visual inspection.	(a) Cracked or discoloured glass or transparent panel (if permitted).
		(b) Glass or transparent panel (including reflecting or tinted film) that does not comply with specifications in the requirements () (XX) Ω.
		(c) Glass or transparent panel in unacceptable condition.
3.3. Rear-view mirrors or devices	Visual inspection.	 (a) Mirror or device missing or not fitted according to the requirements (). (b) Mirror or device inoperative, damaged, loose or insecure.
3.4. Windscreen wipers	Visual inspection and by operation.	 (a) Wipers not operating or missing (b) Wiper blade missing or obviously defective.
3.5. Windscreen washers	Visual inspection and by operation.	Washers not operating adequately.

3.6 Demisting system (X) <u>(</u>)	Visual inspection and by operation.	System inoperative or obviously defective.
4. LAMPS, REFLEC EQUIPMENT	CTORS AND ELEC	CTRICAL
4.1. Headlamps		
4.1.1. Condition and operation	Visual inspection and by operation.	 (a) Defective or missing light/light source. (b) Defective or missing projection
		system (reflector and lens). (c) Lamp not securely attached.
4.1.2. Alignment	Determine the horizontal aim of each headlamp on dipped beam using a headlamp aiming device or a screen.	Aim of a headlamp not within limits laid down in the requirements <u>()</u> .
4.1.3. Switching	Visual inspection and by operation.	 (a) Switch does not operate in accordance with the requirements () (Number of headlamps illuminated at the same time) (b) Function of control device impaired.
4.1.4. Compliance with requirements <u>()</u> .	Visual inspection and by operation.	 (a) Lamp, emitted colour, position or intensity not in accordance with the requirements (). (b) Products on
		lens or light

		source which obviously reduce light intensity or change emitted colour. (c) Light source and lamp not compatible
4.1.5. Levelling devices (where mandatory)	Visual inspection and by operation if possible.	 (a) Device not operating. (b) Manual device cannot be operated from driver's seat.
4.1.6. Headlamp cleaning device (where mandatory)	Visual inspection and by operation if possible.	Device not operating.
4.2. Front and rear pand end outline mar		le marker lamps
4.2.1. Condition and operation	Visual inspection and by operation.	 (a) Defective light source. (b) Defective lens. (c) Lamp not securely attached.
4.2.2. Switching	Visual inspection and by operation.	 (a) Switch does not operate in accordance with the requirements <u>()</u>. (b) Function of control device impaired.
4.2.3. Compliance with requirements <u>()</u> .	Visual inspection and by operation.	 (a) Lamp, emitted colour, position or intensity not in accordance with the requirements <u>(</u>). (b) Products on

source which reduce light intensity or change emitted colour.4.3. Stop Lamps4.3.1. Condition and operationVisual inspection and by operation.(a) Defective light source. (b) Defective lens. (c) Lamp not securely attached4.3.2. SwitchingVisual inspection and by operation.(a) Switch does not operate in accordance with the requirements ζ.4.3.3. Compliance with requirements ζ.Visual inspection and by operation.Lamp, emitted colour, position colour, pos
 4.3. Stop Lamps 4.3.1. Condition and operation Visual inspection and by operation. (a) Defective light source. (b) Defective lens. (c) Lamp not securely attached (a) Defective light source. (b) Defective lens. (c) Lamp not securely attached (a) Switch does not operate in accordance with the requirements (). (b) Function of control device impaired. 4.3.3. Compliance Visual inspection and by operation and (b) Function of control device impaired.
 4.3. Stop Lamps 4.3.1. Condition and operation 4.3.2. Switching 4.3.2. Switching 4.3.2. Switching 4.3.3. Compliance 4.3.3. Compliance 4.3.3. Compliance 4.3.4 4.3.4 4.3.5 4.3.5 4.3.6 4.3.6 4.3.6 4.3.7 4.3.7 4.3.7 4.3.8 4.3.9 4.3.9
 4.3. Stop Lamps 4.3.1. Condition and operation Visual inspection and by operation. (a) Defective light source. (b) Defective lens. (c) Lamp not securely attached 4.3.2. Switching Visual inspection and by operation. Visual inspection and by operation. (a) Switch does not operate in accordance with the requirements (. (b) Function of control device impaired. 4.3.3. Compliance Visual inspection and Visual inspection and Lamp, emitted colour, position of
 4.3.1. Condition and operation 4.3.1. Condition and operation Visual inspection and by operation. (a) Defective light source. (b) Defective lens. (c) Lamp not securely attached (a) Switch does not operate in accordance with the requirements (). (b) Function of control device impaired. 4.3.3. Compliance Visual inspection and by operation. Visual Lamp, emitted colour, position of
and operationinspection and by operation.light source.(b) Defective lens.(c) Lamp not securely attached4.3.2. SwitchingVisual inspection and by operation.(a) Switch does not operate in accordance with the requirements ().4.3.3. Compliance withVisual inspection and by operation.(b) Function of control device impaired.4.3.3. Compliance withVisual inspection and by operation.Lamp, emitted colour, position of colour, position of
 by operation. by operation. by operation. by operation. by operation. c) Lamp not securely attached c) Lamp not securely attached a.3.2. Switching Visual inspection and by operation. by operation. c) Lamp not securely attached c) Lamp not securely attached c) Lamp not securely attached d) Switch does not operate in accordance with the requirements (inspection and by operation. by operation. by operation. c) Lamp not securely attached d) Switch does not operate in accordance with the requirements (inspection and by operation. c) Function of control device impaired. c) Substance c) Substance
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 inspection and by operation. inspection and by operation. inspection. inspection and by operation. inspection. inspection and by operation.
4.3.3. Compliance withVisual inspection andLamp, emitted colour, position of
with inspection and colour, position of
requirements () by operation intensity not in
accordance with
the
requirements <u>()</u> .
4.4. Direction indicator and hazard warning lamps
4.4.1. Condition Visual (a) Defective
and operation inspection and light source.
by operation. (b) Defective lens.
(c) Lamp not securely attached
4.4.2. Switching Visual Switch does not
inspection and operate in
by operation. accordance with
the requirements <u>()</u> .

with	inspection and	colour, position or
requirements <u>()</u> .	by operation.	intensity not in accordance with the requirements <u>(</u>).
4.4.4. Flashing frequency	Visual inspection and by operation.	Rate of flashing not in accordance with the requirements <u>(</u>).
4.5. Front and rear	fog lamps	
4.5.1. Condition and operation	Visual inspection and by operation.	(a) Defective light source.(b) Defective lens.(c) Lamp not securely attached.
4.5.2. Alignment (X) <u>(</u>)	by operation and using a headlamp aiming device	Front fog lamp out of horizontal alignment when the light pattern has cut-off line
4.5.3. Switching	Visual inspection and by operation.	Switch does not operate in accordance with the requirements <u>()</u> .
4.5.4. Compliance with requirements <u>()</u> .	Visual inspection and by operation.	(a) Lamp, emitted colour, position or intensity not in accordance with the requirements ()
		(b) System does not operate in accordance with the requirements <u>(</u>)
4.6. Reversing lamps		
4.6.1. Condition and operation	Visual inspection and	(a) Defective light source.

	by operation.	(b) Defectivelens.(c) Lamp not
4.6.2. Compliance with requirements <u>(</u>)	Visual inspection and by operation.	(a) Lamp, emitted colour, position or intensity not in accordance with the requirements <u>()</u> .
		(b) System does not operate in accordance with the requirements <u>()</u> .
4.6.3. Switching	Visual inspection and by operation.	Switch does not operate in accordance with the requirements <u>()</u>
4.7. Rear registratio	n plate lamp	
4.7.1. Condition and operation	Visual inspection and by operation.	 (a) Lamp throwing direct light to the rear. (b) Defective light source. (c) Lamp not
		securely attached.
4.7.2. Compliance with requirements <u>()</u>	Visual inspection and by operation.	System does not operate in accordance with the requirements <u>()</u> .
4.8. Retro-reflectors, conspicuity (retro reflecting) markings and rear marker plates		
4.8.1. Condition	Visual inspection.	(a) Reflecting equipment defective or damaged.
		(b) Reflector not

		securely attached.
 4.8.2. Compliance with requirements <u>(</u>) 4.9. Tell-tales mand 	Visual inspection. atory for lighting	Device, reflected colour or position not in accordance with the requirements ().
4.9.1. Condition and operation	Visual inspection and by operation.	Not operating.
4.9.2. Compliance with requirements <u>()</u>	Visual inspection and by operation.	Not in accordance with the requirements <u>()</u> .
4.10. Electrical connections between towing vehicle and trailer or semi-trailer	Visual inspection: if possible examine the electrical continuity of the connection.	 (a) Fixed components not securely attached. (b) Damaged or deteriorated insulation. (c) Trailer or towing vehicle electrical connections not functioning correctly.
4.11. Electrical wiring	Visual inspection with vehicle over a pit or on a hoist, including inside the engine compartment in some cases.	 (a) Wiring insecure or not adequately secured. (b) Wiring deteriorated (c) Damaged or deteriorated insulation.
4.12. Non obligatory lamps and retro-reflectors (X) <u>μ</u>	Visual inspection and by operation.	 (a) A lamp/retroreflector fitted not in accordance with the requirements <u>()</u> (b) Lamp operation not in

		accordance with the requirements <u>()</u> . (c) Lamp/retro- reflector not securely attached.
4.13. Battery(ies)	Visual inspection.	 (a) Insecure. (b) Leaking. (c) Defective switch (if required). (d) Defective fuses (if required). (e) inappropriate ventilation (if required)
5. AXLES, WHEEI	S, TYRES AND SU	ISPENSION
5.1. Axles		
5.1.1. Axles	Visual inspection with vehicle over a pit or on a hoist. Wheel play detectors may be used and are recommended for vehicles over 3,5 tonnes gross vehicle mass (GVM).	 (a) Axle fractured or deformed. (b) Insecure fixing to vehicle. (c) Inappropriate repair or modification.
5.1.2. Stub axles	Visual inspection with vehicle over a pit or on a hoist. Wheel play detectors may be used and are recommended for vehicles over 3,5 tonnes GVM. Apply a vertical or	 (a) Stub axle fractured. (b) Excessive wear in the swivel pin and/or bushes. (c) Excessive movement between stub axle and axle beam. (d) Stub axle pin

	lateral force to each wheel and note the amount of movement between the axle beam and stub axle.	loose in axle.
5.1.3. Wheel bearings	Visual inspection with the vehicle over a pit or on a hoist. Wheel play detectors may be used and are recommended for vehicles over 3,5 tonnes GVM. Rock the wheel or apply a lateral force to each wheel and note the amount of upward movement of the wheel relative to the stub axle.	(a) Excessive play in a wheel bearing.(b) Wheel bearing too tight, jammed.
5.2. Wheels and ty	res	- -
5.2.1. Road wheel hub	Visual inspection.	(a) Any wheel nuts or studs missing or loose.(b) Hub worn or damaged
5.2.2. Wheels	Visual inspection of both sides of each wheel with vehicle over a pit or on a hoist.	 (a) Any fracture or welding defect (b) Tyre retaining rings not properly fitted. (c) Wheel badly distorted or worn. (d) Wheel size or type not in

		the
		requirements () and effecting road safety
5.2.3. Tyres	Visual inspection of the entire tyre by either rotating the road wheel with it off the ground and the vehicle over a pit or on a hoist, or by rolling the vehicle backwards and forwards over a pit.	(a) Tyre size, load capacity, approval mark or speed rating not in accordance with the requirements () and effecting road safety (b) Tyres on same axle or on twin wheels of different sizes. (c) Tyres on same axle of different construction (radial/cross-ply). (d) Any serious damage or cut to tyre. (e) Tyre tread depth not in accordance with the
		(f) Tyre rubbing against other components.
		(g) Re-grooved tyres not in accordance with requirements <u>()</u>
		 (h) air pressure monitoring system malfunctioning or obviously inoperative
5.3. Suspension system		
5.3.1. Springs and stabilizer	Visual inspection with vehicle over a	(a) Insecure attachment of springs to chassis

	pit or on a hoist. Wheel play detectors may be used and are recommended for vehicles over 3,5 tonnes GVM.	or axle. (b) A damaged or fractured spring component. (c) spring missing (d) inappropriate repair or modification
5.3.2. Shock absorbers	Visual inspection with vehicle over a pit or on a hoist or using special equipment, if available.	 (a) Insecure attachment of shock absorbers to chassis or axle. (b) Damaged shock absorber showing signs of severe leakage or malfunction.
5.3.2.1. efficiency testing of damping (X) ()	Use special equipment and compare left/right differences and/or absolute values given by manufactures	(a) significantdifferencebetween left andright(b) givenminimum valuesnot reached
5.3.3. Torque tubes, radius arms, wishbones and suspension arms	Visual inspection with vehicle over a pit or on a hoist. Wheel play detectors may be used and are recommended for vehicles over 3,5 tonnes GVM.	 (a) Insecure attachment of component to chassis or axle. (b) A damaged, fractured or excessively corroded component. (c) Inappropriate repair or modification.
5.3.4. Suspension joints	Visual inspection with vehicle over a pit or on a hoist. Wheel play detectors may	(a) Excessive wear in swivel pin and/or bushes or at suspension joints.

	be used and are recommended for vehicles over 3,5 tonnes GVM.	(b) Dust cover missing or severely deteriorated.
5.3.5. Air suspension	Visual inspection	 (a) System inoperable. (b) Any component damaged, modified or deteriorated in a way that would adversely affect the functioning of the system (c) audible system leakage
6. CHASSIS AND C	HASSIS ATTACH	MENTS
6.1. Chassis or fram	e and attachments	
6.1.1. General condition	Visual inspection with vehicle over a pit or on a hoist.	a) Fracture or deformation of any side or cross member.
		b) Insecurity of strengthening plates or fastenings.
		c) Excessive
		corrosion which affects the rigidity of the assembly.
6.1.2. Exhaust pipes and silencers	Visual inspection with vehicle over a	affects the rigidity
	inspection with	affects the rigidity of the assembly. a) Insecure or leaking exhaust
	inspection with vehicle over a	affects the rigidity of the assembly.a) Insecure or leaking exhaust system.b) Fumes entering cab or passengers

(including heating	vehicle over a	(b) Leaking fuel
fuel tank and pipes)	pit or on a hoist, use of leak detecting devices in case of LPG/CNG systems.	or missing or ineffective filler cap.
		(c) Damaged or chafed pipes.
		(d) Fuel stopcock (if required) not operating correctly.
		(e) Fire risk due to
		— leaking fuel,
		— fuel tank or exhaust improperly shielded,
		— engine compartment condition,
		(f) LPG/CNG or hydrogen system not in accordance with requirements <u>()</u> .
6.1.4. Bumpers, lateral protection and rear underrun devices	Visual inspection.	(a) Looseness or damage likely to cause injury when grazed or contacted.
		(b) Device obviously not in compliance with the requirements <u>()</u> .
6.1.5. Spare wheel carrier (if fitted)	Visual inspection.	(a) Carrier not in proper condition
		(b) Carrier fractured or insecure.
		(c) A spare wheel not securely fixed

		in carrier and likely to fall off.
6.1.6. Coupling mechanisms and towing equipment	Visual inspection for wear and correct operation with special attention to any safety device fitted and/or use of measuring gauge.	 (a) Component damaged, defective or cracked. (b) Excessive wear in a component. (c) Attachment defective. (d) Any safety device missing or not operating correctly. (e) Any indicator not working. (f) Obstruct registration plate or any lamp (when not in use) (g) Inappropriate repair or
6.1.7. Transmission	Visual inspection.	 modification. (a) Loose or missing securing bolts. (b) Excessive wear in transmission shaft bearings. (c) Excessive wear in universal joints. (d) Deteriorated flexible couplings. (e) A damaged or bent shaft. (f) Bearing housing fractured or insecure.

6.1.8. Engine mountings	Visual inspection not necessarily on a pit or hoist.	 (g) Dust cover missing or severely deteriorated. (h) Illegal power- train modification Deteriorated, obviously and severely damaged, loose or fractured mountings.
6.1.9. Engine performance	Visual inspection	(a) Control unitillegal modified(b) illegal enginemodification
6.2. Cab and bodyw	ork	
6.2.1. Condition	Visual inspection.	 (a) A loose or damaged panel or part likely to cause injury. (b) Insecure body pillar. (c) Permitting entry of engine or exhaust fumes. (d) Inappropriate repair or modification.
6.2.2. Mounting	Visual inspection over a pit or on a hoist.	 (a) Body or cab insecure. (b) Body/cab obviously not located squarely on chassis. (c) Insecure or missing fixing of body/cab to chassis or cross members. (d) Excessive corrosion at fixing

		points on integral bodies.
6.2.3. Doors and door catches	Visual inspection.	(a) A door will not open or close properly.
		(b) A door likely to open inadvertently or one that will not remain closed.
		(c) Door, hinges, catches, pillar, missing, loose or deteriorated.
6.2.4. Floor	Visual inspection over a pit or on a hoist.	Floor insecure or badly deteriorated
6.2.5. Driver's seat	Visual inspection.	(a) A loose seat or seat with defective structure.
		(b) Adjustment mechanism not functioning correctly.
6.2.6. Other seats	Visual inspection.	(a) Seats in defective condition or insecure.
		(b) Seats fitted not in accordance with requirements <u>()</u> .
6.2.7. Driving	Visual	Any control
controls	inspection and by operation.	necessary for the safe operation of the vehicle not functioning correctly.
6.2.8. Cab steps	Visual	(a) Step or step

	inspection.	ring insecure.
		(b) Step or ring in a condition likely to cause injury to users.
6.2.9. Other interior and exterior fittings and equipment	Visual inspection.	 (a) Attachment of other fitting or equipment defective. (b) Other fitting or equipment not in accordance with the
		requirements <u>()</u> . (c) Leaking hydraulic equipment
6.2.10. Mudguards (wings), spray suppression devices	Visual inspection.	 (a) Missing, loose or badly corroded. (b) Insufficient clearance to road wheel. (c) Not in accordance with the
		requirements <u>()</u> .
7. OTHER EQUIPM		
7.1. Safety-belts/buc	ckles and restraint	t systems
7.1.1. Security of safety-belts/buckles mounting	Visual inspection.	(a) Anchorage point badly deteriorated.
		(b) Anchorage loose
7.1.2. Condition of safety- belts/buckles.	Visual inspection and by operation.	(a) Mandatory safety-belt missing or not fitted.
		(b) Safety-belt damaged.
		(c) Safety-belt

		not in accordance with the requirements <u>()</u> . (d) Safety-belt buckle damaged or not functioning correctly. (e) Safety-belt retractor damaged or not functioning correctly.
7.1.3. Safety belt Load limiter	Visual inspection	Load limiter obviously missing or not suitable with the vehicle
7.1.4. Safety belt Pre-tensioners	Visual inspection	Pre-tensioner obviously missing or not suitable with the vehicle
7.1.5. Airbag	Visual inspection	 (a) Airbags obviously missing or not suitable with the vehicle. (b) Airbag obviously non operative
7.1.6. SRS Systems	Visual inspection of MIL	SRS MIL indicates any kind of failure of the system
7.2. Fire extinguisher (X) <u>(</u>)	Visual inspection.	(a) Missing. (b) Not in accordance with the requirements <u>()</u> .
7.3. Visual inspection and by operation	Visual inspection.	 (a) Device not functioning to prevent vehicle being driven. (b) Defective or inadvertently

		locking or blocking
7.4. Warning triangle (if required) (X) <u>(</u>)	Visual inspection.	 (a) Missing or incomplete. (b) Not in accordance with the requirements <u>()</u>.
7.5. First aid kit. (if required) (X) <u>(</u>)	Visual inspection.	Missing, incomplete or not in accordance with the requirements <u>()</u> .
7.6. Wheel chocks (wedges) (if required) (X) <u>(</u>	Visual inspection.	Missing or not in good condition.
7.7. Audible warning device	Visual inspection and by operation.	 (a) Not working. (b) Control insecure. (c) Not in accordance with the requirements <u>(</u>).
7.8. Speedometer	Visual inspection or by operation during road test or by electronically means	 (a) Not fitted in accordance with the requirements (). (b) Not operational. (c) Not capable of being illuminated.
7.9. Tachograph (if fitted/required)	Visual inspection.	 (a) Not fitted in accordance with the requirements (). (b) Not operational. (c) Defective or missing seals. (d) Calibration

		 plaque missing, illegible or out of date. (e) Obvious tampering or manipulation. (f) Size of tyres not compatible with calibration parameters
7.10. Speed limitation device (if fitted/required)	Visual inspection and by operation if equipment available.	 (a) Not fitted in accordance with the requirements (). (b) Obviously not operational. (c) Incorrect set speed (if checked) (d) Defective or missing seals. (e) Calibration plaque missing, illegible or out of date. (f) size of tyres not compatible with calibration parameters
7.11. Odometer if available (X) <u>(</u>	Visual inspection	(a) obviously manipulated(fraud)(b) obviously inoperative
7.12. Electronic Stability Control (ESC) if fitted/required	Visual inspection	 (a) Wheel speed sensors missing or damaged (b) Wirings damaged (c) Other components missing or

8. NUISANCE		damaged (d) Switch damaged or not functioning correctly (e) ESC MIL indicates any kind of failure of the system
8.1. Noise		
8.1.1. Noise suppression system	Subjective evaluation (unless the inspector considers that the noise level may be borderline, in which case a standing noise test using a noise meter may be conducted)	 (a) Noise levels in excess of those permitted in the requirements (). (b) Any part of the noise suppression system loose, likely to fall off, damaged, incorrectly fitted, missing or obviously modified in a way that would adversely affect the noise levels.
8.2. Exhaust emissio	ns	
8.2.1. Petrol engine 8.2.1.1. Exhaust emissions control equipment	emissions Visual inspection	 (a) Emission control equipment fitted by the manufacturer absent, modified or obviously defective. (b) Leaks which would affect emission

		requirements <u>()</u> .
		 (c) Lambda outside the range 1 ± 0,03 or not in accordance with the manufacturer's specification (d) OBD readout indicating significant malfunction
8.2.2. Diesel engine	emissions	
8.2.2.1. Exhaust emission control equipment	Visual inspection	(a) Emission control equipment fitted by the manufacturer absent or obviously defective
		(b) Leaks which would affect emission measurements
8.2.2.2. Opacity Vehicles registered or put into service before 1 January 1980 are exempted from this requirement	 (a) Exhaust gas opacity to be measured during free acceleration (no load from idle up to cut-off speed) with gear lever in neutral and clutch engaged. (b) Vehicle preconditioning: 1. Vehicles may be tested without preconditioning 	 (a) For vehicles registered or put into service for the first time after the date specified in requirements (). opacity exceeds the level recorded on the manufacturer's plate on the vehicle; (b) Where this information is not available or requirements (). do not allow the use of reference values.
	although for safety reasons	for naturally

checks should	aspirated engines:
be made that	2,5 m-1,
the engine is	C . 1 1 1
warm and in a	for turbo-charged
satisfactory	engines: 3,0 m-1,
mechanical	or, for vehicles
condition.	identified in
condition.	
2. precondition requirements:	requirements $(\underline{\lambda})$, or first registered or put into service for the first time after the date specified in requirements $(\underline{\lambda})$,
(i) Engine shall	1,5 m-1 <u>(7</u>).
be fully warm,	
for instance the	
engine oil	
U	
temperature	
measured by a	
probe in the oil	
level dipstick	
tube to be at	
least 80 °C, or	
normal	
operating	
temperature if	
lower, or the	
engine block	
-	
temperature	
measured by the	
level of infrared	
radiation to be	
at least an	
equivalent	
temperature. If,	
owing to vehicle	
configuration,	
this	
measurement is	
impractical, the	
establishment of	
the engine's	
normal	
operating	
temperature	
may be made by	
other means, for	
example by the	
operation of the	
engine cooling	
fan.	
(ii) Exchange	
(ii) Exhaust	

system shall be	
purged by at	
least three free	
acceleration	
cycles or by an	
equivalent	
method.	
(c) Test	
procedure:	
1. Engine and	
any	
turbocharger	
fitted, to be at	
idle before the	
start of each free	
acceleration	
cycle. For	
heavy-duty	
diesels, this	
means waiting	
for at least 10	
seconds after	
the release of	
the throttle.	
2. To initiate	
each free	
acceleration	
cycle, the	
throttle pedal	
must be fully	
depressed	
quickly and	
continuously (in	
less than one	
second) but not	
violently, so as	
to obtain	
maximum	
delivery from	
the injection	
pump.	
3. During each	
free acceleration	
cycle, the	
engine shall	
reach cut-off	
speed or, for	
1	

vehicles with	
automatic	
transmissions,	
the speed	
specified by the	
manufacturer or	
if this data is not	
available then	
two thirds of	
the cut-off	
speed, before	
the throttle is	
released. This	
could be	
checked, for	
instance, by	
monitoring	
engine speed or	
by allowing a	
sufficient time	
to elapse	
between initial	
throttle	
depression and	
release, which	
in the case of	
vehicles of	
category 1 and 2	
of Annex 1,	
should be at	
least two	
seconds.	
4. Vehicles	
shall only be failed if the	
arithmetic	
means of at least	
the last three	
free acceleration	
cycles are in excess of the	
limit value. This	
may be	
calculated by	
ignoring any	
measurement	
that departs	
significantly	
from the	

	measured mean,	
	or the result of	
	any other	
	statistical	
	calculation that	
	takes account of	
	the scattering of	
	the	
	measurements.	
	Member States	
	may limit the	
	number of test	
	cycles.	
	5. To avoid	
	unnecessary	
	testing, Member	
	States may fail	
	vehicles which	
	have measured	
	values	
	significantly in	
	excess of the	
	limit values	
	after less than	
	three free	
	acceleration	
	cycles or after	
	the purging	
	cycles. Equally	
	to avoid	
	unnecessary	
	testing, Member	
	States may pass	
	vehicles which	
	have measured	
	values	
	significantly	
	below the limits	
	after less than	
	three free	
	acceleration	
	cycles or after	
	the purging	
	cycles	
8.3. Electromagneti	c interference sup	pression
Radio-interference	Visual	Any requirements
(X) <u>(</u>)	examination.	of the
(\mathbf{v})	examination.	
(x) fi		

		requirements () not () not () not
8.4. Other items rela	ated to the enviro	onment
8.4.1. Fluid leaks	Visual examination	Any excessive fluid leak likely to harm the environment or to pose a safety risk to other road users
9. SUPPLEMENTAI CARRYING VEHIC		ASSENGER
9.1. Doors		
9.1.1. Entrance and exit doors	Visual inspection and by operation	(a) Defectiveoperation(b) Deterioratedcondition
		(c) Defective emergency control
		(d) Remote control of doors or warning devices defective
		(e) Not in accordance with the requirements <u>()</u> .
9.1.2. Emergency exits	Visual inspection and by operation (where appropriate)	 (a) defective operation (b) Emergency exits signs missing or illegible (c) Missing hammer to break glass (d) Not in accordance with
		requirements <u>()</u> .

defrosting system (X) <u>(</u>	inspection and by operation	correctly (b) Emission of toxic or exhaust gases into driver's or passenger compartment (c) Defective defrosting (if compulsory)
9.3. Ventilation and heating system (X) <u>(</u>)	Visual inspection and by operation	 (a) Defective operation (b) Emission of toxic or exhaust gases into driver's or passenger compartment
9.4. Seats		
9.4.1. Passenger seats (including seats for accompanying personnel)	Visual inspection	 a) Seats in defective condition or insecure b) Folding seats (if allowed) not working automatically c) Not in accordance with the requirements <u>(</u>).
9.4.2. Driver's seat (additional require- ments)	Visual inspection	 a) Defective special devices such as anti-glare shield or anti- dazzle screen b) Protection for driver insecure or not in accordance with requirements ().
9.5. Interior lighting and destination devices	Visual inspection and	Device defective or not in accordance with

(X) <u>(</u>)	by operation	requirements <u>()</u> .
9.6. Gangways, standing areas	Visual inspection	(a) Insecure floor.(b) Defective rails
		or grab handles.
		(c) Not in accordance with the
		requirements <u>()</u> .
9.7. Stairs and steps	Visual inspection and	(a) Deteriorated or damaged
	by operation	condition
	(where	(b) Retractable
	appropriate)	steps not
		operating
		correctly
		(c) Not in
		accordance with
		requirements <u>()</u> .
9.8. Passenger	Visual	Defective system
communication	inspection and	
system (X) <u>(</u>)	by operation.	
9.9. Notices (X) <u>()</u>	Visual	(a) missing,
	inspection.	erroneous or illegible notice
		(b) not in
		accordance with
		requirements <u>()</u> .
9.10. Requirements (X) <u>(</u>)	regarding the trai	hsport of children.
9.10.1. Doors	Visual	Protection of
	inspection	doors not in
		accordance with the
		requirements (). regarding this form of transport.
9.10.2. Signalling	Visual	Signalling or
and special	inspection	special equipment
equipment		absent or not in
		accordance with
		requirements <u>()</u>

9.11.1. Doors, ramps and lifts	Visual inspection and	(a) Defective operation.
	by operation	(b) Deteriorated condition.
		(c) Defective control(s).
		(d) Defective warning device(s)
		(e) Not in accordance with the requirements <u>()</u> .
9.11.2. Wheelchair fixings	Visual inspection and by operation if	(a) Defective operation.
	appropriate	(b) Deteriorated condition.
		(c) Defective control(s).
		(d) Not in accordance with the requirements <u>()</u> .
9.11.3. Signalling and special equipment	Visual inspection	Signalling or special equipment absent or not in accordance with requirements <u>()</u> .
9.12. Other special e	equipment (X) <u>(</u>	1
9.12.1. Installations for food preparation	Visual inspection	(a) installation not in accordance with the requirements <u>()</u> .
		(b) installation damaged to such an extent that it would be dangerous to use it.

9.12.2. Sanitary installation	Visual inspection	Installation not in accordance with the requirements <u>()</u> .
9.12.3. Other devices (e.g. audiovisual systems)	Visual inspection	Not in accordance with the requirements <u>()</u> .

(1) Inappropriate repair or modification means a repair or modification that adversely affects the road safety of the vehicle or has a negative effect on the environment.

(2) 48 % for vehicles not fitted with ABS or type approved before 1 October 1991.

(3) 45 % for vehicles registered after 1988 or from the date specified in requirements whichever is the later.

(4) 43 % for semi-trailers and draw-bar trailers registered after 1988 or from the date in requirements whichever is the later.

(5) $2,2 \text{ m/s}_2$ for N1, N2 and N3 vehicles.

(6) Type-approved according to limits in row A or B section 5.3.1.4. of Annex I to Directive 70/220/EEC as amended by Directive 98/69/EC or later or first registered or put into service after 1 July 2002.

(7) Type approved according to limits in row B section 5.3.1.4. of Annex I to Directive 70/220/EEC as amended by Directive 98/69/EC or later; row B1, B2 or C section 6.2.1 of Annex I to Directive 88/77/EEC as amended by Directive 1999/96/EC or later or first registered or put into service after 1 July 2008.

(8) 'requirements' are laid down by type-approval requirements at the date of approval, first registration or first entry into service as well as retrofitting obligations or national legislation in the country of registration.

(9) (X) Identifies items which are related to the condition of the vehicle and its suitability for use on the road but which are not considered essential in a periodic inspection

(10) (XX) This reason for failure only applies if testing is required by national legislation.

ANNEX III PART A

Repealed Directive with list of its successive amendments

(referred to in Article 10)

Council Directive 96/96/EC	
(OJ L 46, 17.2.1997, p. 1)	
Commission Directive 1999/52/EC	
(OJ L 142, 5.6.1999, p. 26)	
Commission Directive 2001/9/EC	
(OJ L 48, 17.2.2001, p. 18)	
Commission Directive 2001/11/EC	
(OJ L 48, 17.2.2001, p. 20)	
Commission Directive 2003/27/EC	
(OJ L 90, 8.4.2003, p. 41)	
Regulation (EC) No 1882/2003	only
of the European Parliament	Annex
and of the Council	III,
(OJ L 284, 31.10.2003, p. 1)	point 68
1	1

PART B

Time limits for transposition into national law

(referred to in Article 10)

Directive	Time limit for
	transposition

96/96/EC	9 March 1998
1999/52/EC	30 September 2000
2001/9/EC	9 March 2002
2001/11/EC	9 March 2003
2003/27/EC	1 January 2004

ANNEX IV

CORRELATION TABLE

Directive 96/96/EC	This Directive
Articles 1 to 4	Articles 1 to 4
Article 5, introductory wording	Article 5, introductory wording
Article 5, first to seventh indents	Article 5, points (a) to (g)
Article 6	-
Article 7	Article 6(1)
—	Article 6(2)
Article 8(1)	Article 7(1)
Article 8(2), first subparagraph	Article 7(2)
Article 8(2), second subparagraph	_
Article 8(3)	_

Article 9(1)	_
Article 9(2)	Article 8
Article 10	_
Article 11(1)	_
Article 11(2)	Article 9
Article 11(3)	_
—	Article 10
Article 12	Article 11
Article 13	Article 12
Annexes I and II	Annexes I and II
Annexes III and IV	
—	Annex III
	Annex IV

- (<u>3</u>) OJ L 46, 17.2.1997, p. 1.
- (<u>4</u>) See Annex III, Part A.
- (<u>5</u>) OJ L 202, 6.9.1971, p. 37.
- (<u>6</u>) OJ L 350, 28.12.1998, p. 1.
- (<u>7</u>) OJ L 274, 9.10.1998, p. 1.
- (<u>8</u>) OJ L 184, 17.7.1999, p. 23.

^{(&}lt;u>1</u>) OJ C 224, 30.8.2008, p. 66.

⁽²⁾ Opinion of the European Parliament of 23 September 2008 (not yet published in the Official Journal) and Council Decision of 30 March 2009.