

APPENDIX 9

to the General Contract of Use (GCU) for wagons

Irregularities to freight wagons in operation and follow-up actions

Edition dated 1 January 2026

- reserved -

Introduction

This document replaces the previous version of Appendix 9 to the GCU "Technical conditions for wagon transfers between railway undertakings". This new version of Appendix 9 is the result of an update to railway legislation in 2024. As part of this update, all content relating to quality management (e.g. covered by the ATTI agreement) has been removed.

In the German version, the term "*Fehlerkatalog*" is also replaced by "*Katalog der Mängel und Schäden*".

A vertical line in the margin denotes amended provisions taking effect on the date shown at the foot of the page: 01/01/2026.

Contents

Introduction	3
1. PURPOSE AND SCOPE OF APPLICATION	5
2. CATALOGUE OF IRREGULARITIES.....	6
2.1 PRESENTATION.....	6
2.2 COMMENTS ON THE CATALOGUE OF IRREGULARITIES	6
 Annex 1 Catalogue of irregularities	
Annex 2 Irregularity classes	
Annex 3 - reserved -	
Annex 4 Verification using a combined gauge	
Annex 5 Catalogue of inspections in accordance with Annex 1	
Annex 6 - reserved -	
Annex 7 - reserved -	
Annex 8 Handling of wagons	
Annex 9 Checklists	
Annex 10 - reserved -	
Annex 11 I, K, M, R1 and U labels	
Annex 12 Traceability	

1. PURPOSE AND SCOPE OF APPLICATION

- 1.1** This appendix defines and codes standardised irregularities to loaded and empty freight wagons, as well as the follow-up action to be taken in order to promote efficient railway operations.
- 1.2** GCU RUs apply this appendix if they detect deviations from the technical target state (irregularities) on wagons.
- 1.3** The codes and follow-up actions apply to all technical checks carried out by RUs, i.e. train departure checks, checks following warning messages from infrastructure systems, or exceptional operational occurrences.
- 1.4** The GCU parties use the codes to exchange information on the technical condition of freight wagons or their loads. Specifically, this involves the exchange of information between RUs and wagon keepers and between the RUs involved in a transport chain.
- 1.5** The RUs themselves define the procedures for carrying out the checks within their safety management system, including the requirements for the staff performing the checks.
- 1.6** In this annex, the term "irregularities" refers to all types of deviations from the target technical state.
- The term "irregularities" includes:
- Wear and tear,
 - Damage caused during railway operation,
 - Other damage that represents a deviation from the wagon's target technical state.
- 1.7** The specifications on how a technical inspection is to be carried out are to be regulated by the RUs within their SMS.
- 1.8** The quality management system must be agreed separately by the RUs, e.g. within ATTI
- 1.9** Not included in the scope of this appendix:
- An RU's procedures for carrying out technical vehicle checks. The RUs define these procedures in their security management system.
 - The skills requirements for RU staff. These skills are regulated in their respective safety management systems.
 - The procedures for the quality management of trust-based transfers between RUs. These procedures are to be regulated by contracts between the RUs, e.g. within ATTI.

2. CATALOGUE OF IRREGULARITIES

2.1 PRESENTATION

The content of **Annex 1** is divided into five columns:

- (1) List of wagon components and aspects of the load to be examined
- (2) Irregularity code
- (3) Irregularities, where appropriate with criteria and indications to facilitate detection
Criteria are marked with a "-"
Remarks are marked with a "•"
If the criteria are met, the designated follow-up action must be taken
Possible means of recognising irregularities are marked "•" without this being a requirement to execute the measures
- (4) Follow-up action to be taken
- (5) Irregularity class

2.2 COMMENTS ON THE CATALOGUE OF IRREGULARITIES

- 2.2.1 All the dimensions (values) quoted should only be measured in cases of doubt. A component must be operated (operating test) or pulled or moved (actuation of the part in question) in the event of a suspected damage or defect.
- 2.2.2 For irregularity codes beginning with 7.x.x., column (3) of which contains cross-references in brackets to the relevant points of Volume 1 of the Loading Guidelines.
- 2.2.3 RU staff shall mark irregularities to the freight wagon in accordance with **Annex 11** of Appendix 9 and, if necessary, additionally with a grease pencil or chalk. RU staff shall enter the irregularity code(s) defined in column (2) of the catalogue of irregularities in **Annex 1** of Appendix 9 in the wagon damage report (Appendix 4 GCU).
- 2.2.4 This appendix is not an exhaustive catalogue of all the irregularities which might occur. Where there are other irregularities not listed in this document, but which might well compromise operating safety or the wagon's fitness for use, qualified RU staff shall take whatever action they deem necessary. Such irregularities are to be documented by means of the superordinate code applicable in context to the part/components/aspect in question and are to be assigned to at least the second grouping level.
- 2.2.5 The expression "Detach wagon" means that the wagon may not continue its onward conveyance if it presents an irregularity that could impact on the safety of operations. There are four categories of the "Detach wagon" action to be taken:
Detach wagon (A) Restore fitness to run in accordance with GCU Appendix 10
Detach wagon (B) Convey the wagon to correct the load
Detach wagon (C) Obtain instructions from the keeper on the action to be taken
Detach wagon (D) Proceed according to RID rules, have dangerous goods interventions carried out
- 2.2.6 Once detached, until its subsequent return to operation, the wagon remains in the custody of the user RU which recorded the irregularity whilst the irregularity is being rectified.
- 2.2.7 All of the irregularities and defects identified in service (based on dimensional deviations in length, depth or width) are to be measured in millimetres (mm). Values of more than 0 mm and less than 1 mm need to be detected, but not measured.
- 2.2.8 Empty/loaded wagon:
The irregularity codes given in **Annex 1** apply to both loaded and non-loaded wagons. The condition of the load or its securing may hamper a wagon's fitness to run. In these cases, the RU shall arrange for the load to be corrected, secured or the wagon to be unloaded.

APPENDIX 9, ANNEX 1

Catalogue of irregularities

Contents

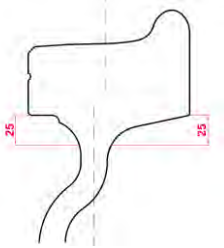
- 1 Running gear**
- 2 Suspension**
- 3 Brakes**
- 4 Wagon underframes and bogie frames**
- 5 Buffing and draw gear**
- 6 Wagon body**
 - 6.1 Wagon body in general
 - 6.2 Covered wagons
 - 6.3 Open wagons
 - 6.4 Flat wagons
 - 6.5 Tank wagons
 - 6.6 Wagons with special fittings
 - 6.7 Gear for securing load units (ILU) on carrier wagons
 - 6.8 Wagons equipped with various technical components
- 7 Loads and intermodal loading units (ILU)**
 - 7.1 Load in general
 - 7.2 Load securing equipment
 - 7.3 Loading and load securing methods
 - 7.4 Special types of consignment
 - 7.5 Specific components ILU
 - 7.6 ILU tank
 - 7.7 Loading of ILU
 - 7.8 Marking, coding
- 8 Particular incidents**
 - 8.1 Operating irregularities
 - 8.2 Other events

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Component	Code	Irregularities/Criteria/Notes	Action to be taken	Irregularity class
Running gear	1			
Tyred wheel	1.1	Thickness less than:	Detach wagon ^(A)	4
	1.1.1	<ul style="list-style-type: none"> – 35 mm on wagons suitable for running at 120 km/h (SS wagons or wagons marked “***) – 30 mm on other wagons¹ 		
	1.1.2	Tyre <ul style="list-style-type: none"> – Broken – Cracked lengthways or crossways 	Detach wagon ^(A)	5
	1.1.3	Tyre loose <ul style="list-style-type: none"> – Inspection marks inconsistent or – Dull ring or – Tyre clip loose or – Appearance of rust between the tyre and the rim over more than one third of the circumference 	Detach wagon ^(A)	5
	1.1.4	Inspection marks <ul style="list-style-type: none"> – Missing – Not clearly recognisable 	Detach wagon ^(A)	4
	1.1.5	Tyre shifted sideways <ul style="list-style-type: none"> – Tyre clip loose or visibly distorted 	Detach wagon ^(A)	5
	1.1.6	Damage to tyre clip <ul style="list-style-type: none"> – Cracked – Broken – Missing 	Detach wagon ^(A)	5

¹ Including wagons that can only be operated at 120 km/h when empty

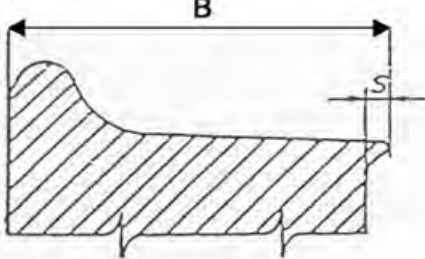
(A) Restore fitness to run, (B) Rectify load, (C) Instructions from keeper, (D) RID procedure.

Component	Code	Irregularities/Criteria/Notes	Action to be taken	Irregularity class
Solid wheel	1.2			
	1.2.1	Groove marking the minimum thickness is no longer fully visible in cross-section ²	Detach wagon ^(A)	4
	1.2.2	Thermal overload due to braking <ul style="list-style-type: none"> Obvious paint burns of > 25 mm at connection between rim and wheel plate (cracks and shelling on paint or traces of rust)  <ul style="list-style-type: none"> Fusion of brake blocks Deterioration of wheel tread with build-up of metal (see also code 1.3.4) Cracked or broken (see also code 1.3.6.5) Uneven blueish appearance on rim due to the effect of thermal overload 	Proceed in accordance with Annex 8 , point 4	
	1.2.2.1	– Without gauge widening of the inner faces for wheels NOT marked as able to withstand high thermal stresses	K + R1 (isolate brake)	4
	1.2.2.2	– With gauge widening of the inner faces for wheels NOT marked as able to withstand high thermal stresses	Detach wagon ^(A)	5
	1.2.2.3	– For wheels marked as able to withstand high thermal stresses	M	3
	1.2.3 ³	Confirmation of thermal overload stresses (applied brake alert - wagons fitted with brake blocks) by the RU during transport (see code 1.2.2)	Proceed in accordance with Annex 8 , point 4	

² The outer groove indicates the minimum thickness (wear groove) should a wheel – as an exception – have two grooves.

³ Thermal overload: Detected by measuring device (applied brake detection system) – Observed during a special inspection separate to the technical inspection.

(A) Restore fitness to run, (B) Rectify load, (C) Instructions from keeper, (D) RID procedure.

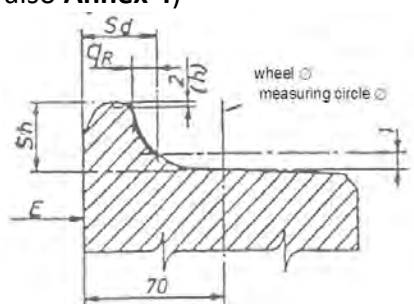
Component	Code	Irregularities/Criteria/Notes	Action to be taken	Irregularity class
Tyre or corresponding part of solid wheel	1.3			
	1.3.1	Width		
	1.3.1.1	Width B > 139 mm and ≤ 140 mm	M	3
	1.3.1.2	Width B > 140 mm < 133 mm <ul style="list-style-type: none"> presence of a projection ("S") 	Detach wagon ^(A)	4
	1.3.2	Tread crushed in places, uneven contact surfaces or irregular protrusions on the wheel rim	Detach wagon ^(A)	4
	1.3.3	Wheel flat		
	1.3.3.1	– Wheel Ø > 840 mm, wheel flat > 60 mm long	Detach wagon ^(A)	4
	1.3.3.2	– Wheel Ø: 630 mm < d ≤ 840 mm, wheel flat > 40 mm long	Detach wagon ^(A)	4
	1.3.3.3	– Wheel Ø ≤ 630 mm, wheel flat > 35 mm long	Detach wagon ^(A)	4
	1.3.4	Build-up of metal		
	1.3.4.1	– Wheel Ø > 840 mm, metal build-up over a length of > 60 mm or ≥ 1 mm thick	Detach wagon ^(A)	4
	1.3.4.2	– Wheel Ø > 840 mm and metal build-up over a length of > 10 mm ≤ 60 mm and < 1 mm thick	M + R1 (isolate brake)	3
	1.3.4.3	– Wheel Ø: 630 mm < d ≤ 840 mm and metal build-up over a length of > 40 mm or ≥ 1 mm thick	Detach wagon ^(A)	4
	1.3.4.4	– Wheel Ø: 630 mm < d ≤ 840 mm and metal build-up over a length of > 10 mm ≤ 40 mm and < 1 mm thick	M + R1 (isolate brake)	3
	1.3.4.5	– Wheel Ø ≤ 630 mm and metal build-up over a length of > 35 mm or ≥ 1 mm thick	Detach wagon ^(A)	4
	1.3.4.6	– Wheel Ø ≤ 630 mm and metal build-up over a length of > 10 mm ≤ 35 mm and < 1 mm thick	M + R1 (isolate brake)	3

(A) Restore fitness to run, (B) Rectify load, (C) Instructions from keeper, (D) RID procedure.

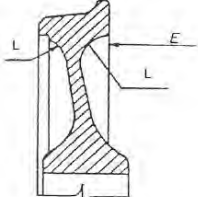
Component	Code	Irregularities/Criteria/Notes	Action to be taken	Irregularity class
Tyre or corresponding part of solid wheel (continued)	1.3.5	Cavity, shelling or flaking		
	1.3.5.1	– Wheel $\varnothing > 840$ mm, length > 60 mm	Detach wagon ^(A)	4
	1.3.5.2	– Wheel \varnothing : $630 \text{ mm} < d \leq 840 \text{ mm}$, length > 40 mm	Detach wagon ^(A)	4
	1.3.5.3	– Wheel $\varnothing \leq 630$ mm, length > 35 mm	Detach wagon ^(A)	4
Tyre or corresponding part of solid wheel (continued)	1.3.6	Cracks and notches		
	1.3.6.1	Cracks at the interface between the wheel tread and the front edge	Detach wagon ^(A)	5
	1.3.6.2	Sharp-angled notches on the front face (rim or inner tyre rim) caused by tools, track brakes or clamping equipment/jaws, except for: – markings applied by the manufacturer	K	4
	1.3.6.3	Cracks on the tread - Isolated cracks – without characteristics of thermal overload	K + R1 (isolate brake)	4
	1.3.6.4	– with characteristics of thermal overload	Detach wagon ^(A)	5
	1.3.6.5	Damage to the rim or web: – cracked – broken	Detach wagon ^(A)	5
	1.3.7	Deposits of paint, oil or lubricants on wheel tread edge except for: – control marks (4 paint marks positions 90° apart) – friction modifiers	Detach wagon ^(A)	5
	1.3.8	Formation of grooves, hollows/furrows, false flanges (hollows) ⁴ on the wheel tread		
	1.3.8.1	– Grooves with sharp edges < 1 mm deep	K + R1 (isolate brake)	4
	1.3.8.2	– Grooves with sharp edges ≥ 1 mm deep	Detach wagon ^(A)	5
	1.3.8.3	– Furrows and false flanges > 2 mm deep	Detach wagon ^(A)	5

⁴ **Grooves** appear on the entire circumference of the wheel and may affect the whole width of the wheel tread; they are characterised by transitions to sharp edges. **Hollows/furrows** appear on the entire circumference of the wheel and may affect the whole width of the wheel tread; they are characterised by a rounded contour, with no transition to sharp edges. **False flange**: there is a false flange when the outer part of the wheel tread is higher than the wheel tread at the level of the tread section

(A) Restore fitness to run, (B) Rectify load, (C) Instructions from keeper, (D) RID procedure.

Component	Code	Irregularities/Criteria/Notes	Action to be taken	Irregularity class
Flange	1.4 1.4.1	Height of flange S_h greater than 36 mm <ul style="list-style-type: none"> Hollow on wheel tread Wagon with LL brake blocks and permissible speed greater than 100 km/h Height of wheel flange S_h greater than 32 mm <ul style="list-style-type: none"> Hollow on wheel tread 	Detach wagon ^(A)	4
	1.4.2	Flange thickness S_d <ul style="list-style-type: none"> Wheel $\varnothing > 840$ mm $S_d < 22$ mm Wheel \varnothing: $760 \text{ mm} \leq d \leq 840$ mm $S_d < 25$ mm Wheel $\varnothing < 760$ mm $S_d < 27.5$ mm Wagons with LL or K brake blocks <ul style="list-style-type: none"> Wheel $\varnothing > 330$ mm $S_d > 33$ mm Worn flange 	Detach wagon ^(A)	5
	1.4.3	Wear of guide faces <ul style="list-style-type: none"> $q_R \leq 6.5$ mm (see Annex 4) Sharp flange 	Detach wagon ^(A)	5
	1.4.4	Burrs or sharp edges on guide face at a distance $h > 2$ mm from maximum height of flange (see also Annex 4) 	Detach wagon ^(A)	5
Wheel centre	1.5 1.5.1	Solid wheel Damage to wheel centre or wheel hub <ul style="list-style-type: none"> Cracked Defect repaired by welding 	Detach wagon ^(A)	5

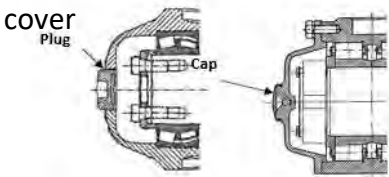

(A) Restore fitness to run, (B) Rectify load, (C) Instructions from keeper, (D) RID procedure.

Component	Code	Irregularities/Criteria/Notes	Action to be taken	Irregularity class
Wheel centre (continued)	1.5.2	Tyred wheel Damage to wheel centre, tyre clip, tyre – Cracked – Broken – Defect repaired by welding	Detach wagon ^(A)	5
Axle	1.6 1.6.1	Damage to axle – Cracked – Deformed (see also code 1.7.1) – Defect repaired by welding – Sharp edge – Worn to a depth of more than 1 mm	Detach wagon ^(A)	5
	1.6.2	Worn to a depth of ≤ 1 mm, no sharp edges	K + R1 (isolate brake)	4
	1.6.3	Part rubbing against axle Also check codes 1.6.1 and 1.6.2	Tie up + K, if necessary R1 (isolate brake). If not possible, detach wagon ^(A)	4
Wheelset	1.7 1.7.1	Clearance E between internal faces non-compliant with the following limit values: – $\varnothing > 840$ mm 1357 mm $\leq E \leq$ 1363 mm – $\varnothing \leq 840$ mm 1359 mm $\leq E \leq$ 1363 mm If in all cases, $E_{\max} - E_{\min} > 2$ mm • Signs of derailment • Signs of movement of wheel on axle • Heating (solid wheel) in “L” fillet zone between web and rim/tyre 	Detach wagon ^(A)	5

(A) Restore fitness to run, (B) Rectify load, (C) Instructions from keeper, (D) RID procedure.

Component	Code	Irregularities/Criteria/Notes	Action to be taken	Irregularity class
Signs of out-of-round wheels	1.7.2	<p>Brake triangle pin sheared off</p> <p>Brake safety stirrup broken (see also code 3.1.2)</p> <p>Shiny traces on the brake triangle end washer</p> <p>Shiny traces on the inner spring (load spring) (see also code 2.5)</p> <p>Lifting safety catch ("T") missing or loose (see also code 2.5.5)</p> <p>Y25 bogies: hard manganese wear plates on axle boxes or axle-box guides have fallen off or welded joints loose (see also codes 1.8.4 and 4.4.2)</p> <p>Tread crushed in places, uneven contact surfaces or irregular protrusions on the wheel rim (see also code 1.3.2)</p>	<p>If at least two of these signs are noted on or near a wheel:</p> <p>K + add comment "Suspected out-of-round wheel"</p>	4

(A) Restore fitness to run, (B) Rectify load, (C) Instructions from keeper, (D) RID procedure.

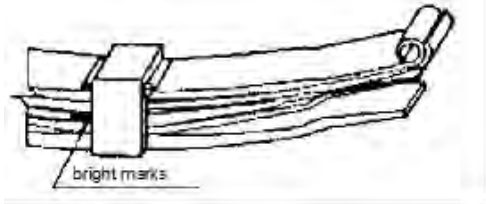
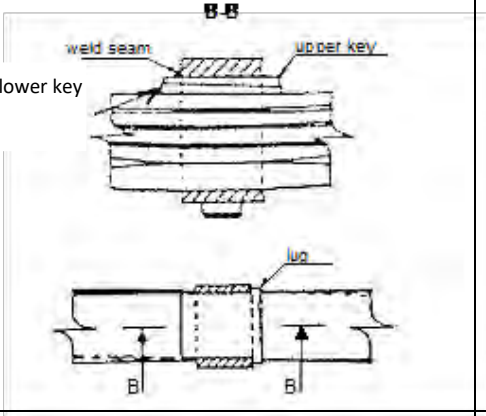
Component	Code	Irregularities/Criteria/Notes	Action to be taken	Irregularity class
Axle box	1.8 1.8.1 1.8.1.1	Housing Housing not watertight Defect allowing water or dust to enter – Cracked or broken housing – Missing plug (the loss of the protective cap of the centring cone is permissible) – Except housing types without cover 	Detach wagon ^(A)	4
	1.8.1.2	Loss of lubricant • Grease or oil discharge on the wheel centre not permissible 	Detach wagon ^(A)	4
	1.8.1.3	Loss of lubricant • Trace of grease or oil in the area of the housing cover	K	4
	1.8.1.4	Mechanical damage to axle box cover (axial generator), see also codes 1.8.1.1, 1.8.1.2 and 1.8.1.3	M	3
	1.8.2	Axle box guides no longer able to guide the axle • Guide broken • Axle box in abnormal position	Detach wagon ^(A)	5
	1.8.3 1.8.3.1	Hot box – Housing too hot to touch with back of hand • Traces of rust	Detach wagon ^(A)	5
	1.8.3.2 ⁵	– Confirmation by the RU of box overheating during transport	Detach wagon ^(A)	5
Hard manganese wear plate on axle box of Y bogie or derivative designs	1.8.4	Displaced or missing	Detach wagon ^(A)	4

⁵ Hot box: Observation by automatic detection – Observation outside the scope of TI by special inspection.

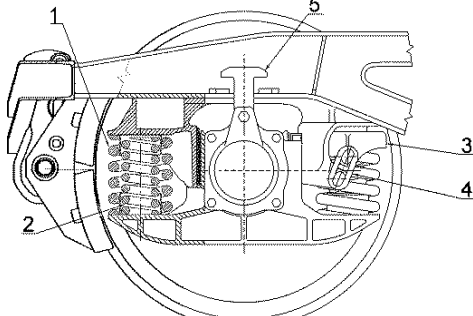
(A) Restore fitness to run, (B) Rectify load, (C) Instructions from keeper, (D) RID procedure.

Component	Code	Irregularities/Criteria/Notes	Action to be taken	Irregularity class
Suspension	2			
Leaf spring	2.1			
	2.1.1	Leaves displaced by more than 10 mm with respect to buckle <ul style="list-style-type: none"> Shiny marks near buckle 	Detach wagon ^(A)	4
	2.1.2	Main leaf fractured or with visible crack	Detach wagon ^(A)	5
	2.1.3	Part of a fractured spring missing	Detach wagon ^(A)	4
	2.1.4	Fracture (but without any part missing) of intermediate leaf at a distance from the centre of the spring of:		
	2.1.4.1	– $< \frac{1}{4}$ of leaf length	Detach wagon ^(A)	4
	2.1.4.2	– $> \frac{1}{4}$ of leaf length <div data-bbox="518 985 997 1265"> </div>	M	3
	2.1.5	Insufficient spring clearance: Vertical distance between buckle and fixed parts of body, underframe or bogie frame less than 15 mm <ul style="list-style-type: none"> Signs of recent contact between buckle and fixed parts of the underframe or bogie frame Signs of recent contact between wheel and underframe or wagon floor/body 	Detach wagon ^(B)	5
	2.1.6	Buckle loose <ul style="list-style-type: none"> Fracture of crack in buckle Key missing or ineffective Signs of loosening of leaves 	Detach wagon ^(A)	5

(A) Restore fitness to run, (B) Rectify load, (C) Instructions from keeper, (D) RID procedure.

Component	Code	Irregularities/Criteria/Notes	Action to be taken	Irregularity class
Additional criteria for parabolic spring	2.2			
	2.2.1	Main or intermediate spring leaf		
	2.2.1.1	Visible crack or break	Detach wagon ^(A)	5
	2.2.1.2	Buckle broken <ul style="list-style-type: none"> Two leaves touching over 50 % of their length 	Detach wagon ^(A)	5
	2.2.2	Leaf displaced lengthways		
	2.2.2.1	– By more than 10 mm	Detach wagon ^(A)	4
	2.2.2.2	– By 10 mm or less <ul style="list-style-type: none"> Shiny marks near buckle 	K	3
	2.2.3	Buckle damaged or loose <ul style="list-style-type: none"> Buckle fractured, cracked Lug of the lower key cracked Weld seam of upper key fractured or cracked 	Detach wagon ^(A)	5
Helical spring	2.3			
	2.3.1	Broken	Detach wagon ^(A)	5

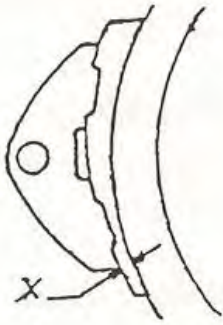
(A) Restore fitness to run, (B) Rectify load, (C) Instructions from keeper, (D) RID procedure.

Component	Code	Irregularities/Criteria/Notes	Action to be taken	Irregularity class
Connection between suspension and axle box or between suspension and bogie frame	2.4			
	2.4.1	Boss of buckle out of position <ul style="list-style-type: none"> Abnormal position of axle box 	Detach wagon ^(A)	5
	2.4.2	Shackle, links displaced, missing, broken, unhooked	Detach wagon ^(A)	5
	2.4.3	Link pin displaced, missing, not secured	Rectify. If not possible, detach wagon ^(A)	5
	2.4.4	Suspension links worn or too long <ul style="list-style-type: none"> Recent traces of contact on the solebar 	K	4
Suspension system of Y 25 bogies or derived systems	2.5	 <p>*Coils wound in opposite directions</p> <p>1. Tare spring* 4. Damper ring 2. Load spring* 5. Lifting T 3. Spring cap</p>		
	2.5.1	Main/tare spring cracked or broken	Detach wagon ^(A)	5
	2.5.2	Auxiliary/load spring displaced or broken		
	2.5.2.1	– On empty wagon	K	4
	2.5.2.2	– On loaded wagon <ul style="list-style-type: none"> Axle box no longer horizontal 	Detach wagon ^(A)	5
	2.5.3	Damper ring(s) missing or broken <ul style="list-style-type: none"> Contact marks 		
	2.5.3.1	– One ring per bogie	K	3
	2.5.3.2	– More than one ring per bogie	Detach wagon ^(A)	5

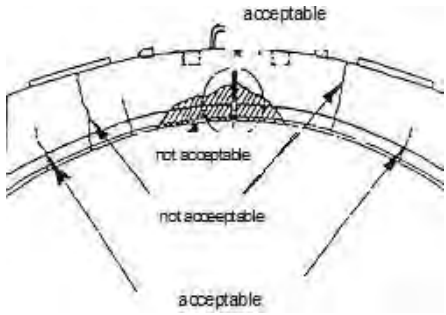
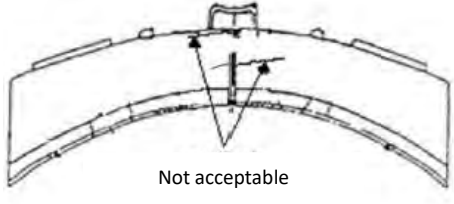
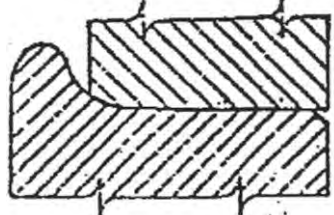
(A) Restore fitness to run, (B) Rectify load, (C) Instructions from keeper, (D) RID procedure.

Component	Code	Irregularities/Criteria/Notes	Action to be taken	Irregularity class
Suspension system of Y 25 bogies or derived systems <i>(continued)</i>	2.5.4	Spring cap(s) in contact with bogie frame		
	2.5.4.1	– One spring cap in contact with bogie	K	3
	2.5.4.2	– More than one spring cap in contact per bogie	Detach wagon ^(A)	5
	2.5.5	Lifting T (safety catch) loose or missing	M	3
	2.5.6	Insufficient spring clearance: Vertical distance between axle-box housing and bogie frame less than 8 mm <ul style="list-style-type: none">Recent signs of contact between axle-box housing and bogie frame	Detach wagon ^(B)	5

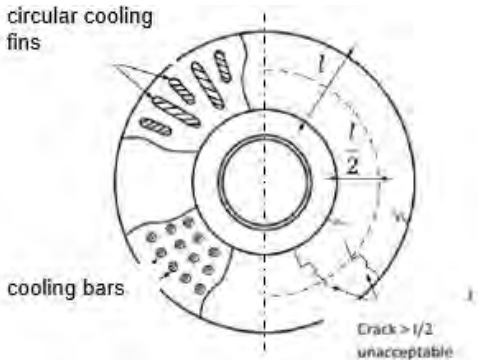
(A) Restore fitness to run, (B) Rectify load, (C) Instructions from keeper, (D) RID procedure.

Component	Code	Irregularities/Criteria/Notes	Action to be taken	Irregularity class
Brakes	3			
Mechanical part (rigging)	3.1			
	3.1.1	Parts of brake rigging hanging down or broken Check also codes 1.6.1, 1.6.2, 1.6.3	Temporary repair, K + R1 (isolate brake)	4
	3.1.2	Safety strap ineffective	Temporary repair, K	4
	3.1.3	Brake isolating cock		
	3.1.3.1	– Unusable	Detach wagon ^(A)	3
	3.1.3.2	– Position not clear	K + R1 (isolate brake), detach wagon ^(A) if necessary	3
	3.1.4	Empty/loaded or G/P changeover system unusable	K + R1 (isolate brake)	3
	3.1.5	Brake release pull broken or missing	K + R1 (isolate brake)	3
Brake block	3.2			
	3.2.1	Cast-iron brake block – missing – broken, cracked right through, even if still held together by its metal insert – worn so that thickness X near brake block is less than 10 mm 	Replace. If not possible, K + R1 (isolate brake)	3

(A) Restore fitness to run, (B) Rectify load, (C) Instructions from keeper, (D) RID procedure.

Component	Code	Irregularities/Criteria/Notes	Action to be taken	Irregularity class
Brake block (continued)	3.2.2	<p>Composite brake block</p> <ul style="list-style-type: none"> – missing – radial crack from friction surface through to plate edge (except at the designated expansion joint) <p>Friction material:</p> <ul style="list-style-type: none"> – visible shelling of the friction material over more than one quarter of the block length, or metal inclusions – detached from back plate by more than 25 mm  <ul style="list-style-type: none"> – cracked over more than 25 mm in direction of wheel circumference – lowest thickness X (see figure 3.2.1) less than 10 mm 	Replace. If not possible, K + R1 (isolate brake)	3
	3.2.3	<p>Brake block protruding</p> <ul style="list-style-type: none"> • a brake block is considered to be protruding once its outer surface reaches the outer edge of the wheel rim 	K + R1 (isolate brake)	4

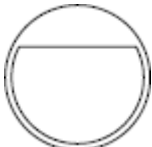
(A) Restore fitness to run, (B) Rectify load, (C) Instructions from keeper, (D) RID procedure.

Component	Code	Irregularities/Criteria/Notes	Action to be taken	Irregularity class
Disc brakes* * Observed during a special inspection separate to the technical inspection	3.2.4			
	3.2.4.1	The inspection groove on the brake discs is no longer completely visible (maximum wear)	K + R1 (isolate brake)	3
	3.2.4.2	Defective brake disc fixing on the axle pin	Detach wagon ^(A)	5
	3.2.4.3	Brake disc: unacceptable cracks > 1/2 as per diagram 	K + R1 (isolate brake)	3
	3.2.4.4	Crack in cross-section	Detach wagon ^(A)	5
	3.2.4.5	Missing or cracked cooling bars – more than 2 side by side – more than 6 in total	K + R1 (isolate brake)	3
	3.2.4.6	Cracked circular cooling fins – more than 4, with less than 3 cooling lines intact between the cracked fins	K + R1 (isolate brake)	3
	3.2.5	Brake linings – missing – cracked	K + R1 (isolate brake)	3
Brake indicator	3.2.6	Defective or brake indicator data not true to the status of the brake or display not synchronous with the indicator (other than indications relating to the handbrake)	K + R1 (isolate brake)	4

(A) Restore fitness to run, (B) Rectify load, (C) Instructions from keeper, (D) RID procedure.

Component	Code	Irregularities/Criteria/Notes	Action to be taken	Irregularity class
Pneumatic part	3.3			
	3.3.1	Main brake pipe		
	3.3.1.1	Main brake pipe inoperative	Detach wagon ^(A)	4
	3.3.1.2	- reserved -		
	3.3.2	Brake coupling		
	3.3.2.1	Damaged or missing (brake couplers must be available at all existing coupler connections on either end of a wagon)	Replace	3
	3.3.2.2	Unused brake coupler hanging loose (where two couplers are available, only one may be plugged in)	Secure, rectify as appropriate	3
	3.3.2.3	- reserved -		
	3.3.3	Brake coupler hold not fit for use	M	3
	3.3.4	Air brakes unfit for use but not labelled as such	Check and, if damaged, K + R1 (isolate brake)	3
	3.3.5	Stopcock		
	3.3.5.1	Unusable, leaking, warped or handle missing	Detach wagon ^(A)	5
	3.3.5.2	Stopping device missing or visibly damaged	Rectify + K. If not possible, detach wagon ^(A)	4
	3.3.6	DET (derailment detector)		
	3.3.6.1	Derailment detector tripped	Rectify + M, proceed according to point 5 of Annex 8	3
	3.3.6.2	Detector not airtight	Isolate detector + M, proceed according to point 5 of Annex 8	3
	3.3.6.3	Detector's connection hose not airtight	Rectify + M, if not possible, detach wagon ^(A)	4

(A) Restore fitness to run, (B) Rectify load, (C) Instructions from keeper, (D) RID procedure.

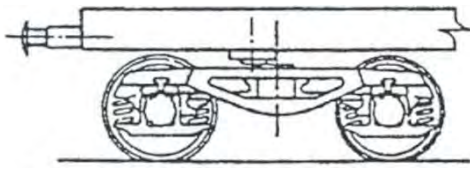
Component	Code	Irregularities/Criteria/Notes	Action to be taken	Irregularity class
Spark arrestor plate	3.4			
	3.4.1	Plate missing or rusted through	K + R1 (isolate brake)	4
	3.4.2	Plate hanging loose	Remove plate, K + R1 (isolate brake), if not possible, detach wagon ^(A)	4
	3.4.3	<p>Consignments of dangerous goods for which spark arrestor plates are stipulated in the RID</p> <p>Non-bogie wagon</p> <p>– non-standard spark arrestor plate</p> <ul style="list-style-type: none"> • non-bogie wagon not bearing the following marking 	R1 (isolate brake)	5
Hand brake	3.5			
	3.5.1	Visibly unfit for use	K + R1	3
Electrical part	3.6			
Automatic brake test	3.6.1 ⁶	Automatic brake test fault (observed and reported during performance of the brake test)	M	3

⁶ Automatic brake test fault – observed separately to the technical inspection during a special inspection.

(A) Restore fitness to run, (B) Rectify load, (C) Instructions from keeper, (D) RID procedure.

Component	Code	Irregularities/Criteria/Notes	Action to be taken	Irregularity class
Wagon under-frames and bogie frames	4			
Wagon underframes	4.1 4.1.1	Underframe warped vertically or horizontally <ul style="list-style-type: none"> • buffer height out of tolerance range (see code 5.1.2) • visible distortion 	Detach wagon ^(A)	5
	4.1.2	Solebar, headstock stressed by coupler or intermediate crossbar exhibiting a fracture or crack <ul style="list-style-type: none"> – fracture – lateral crack starting from edge of flange and extending over more than half the width of flange – longitudinal crack > 100 mm near suspension brackets – longitudinal crack > 150 mm for other parts – cracking at visible welds of these component parts 	Detach wagon ^(A)	4
Axle guard	4.2			
	4.2.1	Distorted, safety hazard	Detach wagon ^(A)	5
	4.2.2	Broken <ul style="list-style-type: none"> • abnormal position 	Detach wagon ^(A)	5
	4.2.3	Fastening		
	4.2.3.1	– loose	Detach wagon ^(A)	5
	4.2.3.2	– some bolts or rivets loosened but axle guard still secure	M	3
	4.2.4	Crack		
	4.2.4.1	– running over more than ¼ of horizontal cross-section	Detach wagon ^(A)	4
	4.2.4.2	– running over ≤ ¼ of horizontal cross-section	K	3
	4.2.4.3	– close to or running towards a fastening point, regardless of length of crack	Detach wagon ^(A)	5

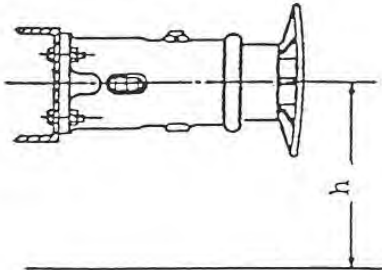
(A) Restore fitness to run, (B) Rectify load, (C) Instructions from keeper, (D) RID procedure.

Component	Code	Irregularities/Criteria/Notes	Action to be taken	Irregularity class
Axle guard tie bar	4.3			
	4.3.1	Missing, broken, visibly distorted, loose	Detach wagon ^(A)	4
Axle guard check plate	4.4			
	4.4.1	Check plate missing Bogie wagon		
	4.4.1.1	– one check plate missing per axle	K	3
	4.4.1.2	– more than one check plate missing	Detach wagon ^(A)	4
	4.4.1.3	Axle wagon – one check plate missing	Detach wagon ^(A)	5
Hard manganese wear plate on Y bogies or derivative designs	4.4.2	Plate displaced or missing	Detach wagon ^(A)	4
Suspension bracket (axle wagon)	4.5			
	4.5.1	Loose, cracked, broken, or distorted – space between bracket and sole-bar – half or more of the fastening elements missing or broken	Detach wagon ^(A)	5
Connection between bogie and underframe	4.6			
	4.6.1			
	4.6.1.1	Defective, connecting and fastening elements broken, missing or ineffective • bogie displaced 	Detach wagon ^(A)	5
	4.6.1.2	Locking device for the bogie pivot kingpin missing or ineffective or pin missing	Detach wagon ^(A)	4

(A) Restore fitness to run, (B) Rectify load, (C) Instructions from keeper, (D) RID procedure.

Component	Code	Irregularities/Criteria/Notes	Action to be taken	Irregularity class
Earthing strap	4.6.2			
	4.6.2.1	One or more earthing straps ineffective (missing, damaged or loose) <ul style="list-style-type: none"> Fastening points indicate that straps should be present 	K	3
	4.6.2.2	All earthing straps are ineffective <ul style="list-style-type: none"> Fastening points indicate that straps should be present 	Rectify. If not possible, detach wagon ^(A)	3
Bogie frame	4.7			
	4.7.1	Component cracked or visibly distorted	Detach wagon ^(A)	4
	4.7.2	Component broken	Detach wagon ^(A)	5
	4.7.3	Bogie frame assembly Screw fastening on bogie frame		
	4.7.3.1	1 screw missing/broken on a single axle	Replace. If not possible, K + R1 (isolate brake)	3
	4.7.3.2	2 screws missing/broken on a single axle	Detach wagon ^(A)	5
Side bearers and side bearer spring	4.8			
	4.8.1	Side bearer broken		
	4.8.1.1	– with no parts missing	K	4
	4.8.1.2	– with part(s) missing	Detach wagon ^(A)	5
	4.8.2	Side bearer spring broken	Detach wagon ^(A)	4
	4.8.3	Incomplete or loose side bearer fastening	K	3
Friction surfaces of the damper system	4.9			
	4.9.1	Lubricated	Detach wagon ^(A)	4
Central articulated joint connection	4.10			
	4.10.1	Connections with upper side bearer (joint side bearer)		
	4.10.1.1	– loose	K	3

(A) Restore fitness to run, (B) Rectify load, (C) Instructions from keeper, (D) RID procedure.

Component	Code	Irregularities/Criteria/Notes	Action to be taken	Irregularity class
Central articulated joint connection <i>(continued)</i>	4.10.1.2	– missing	Detach wagon ^(A)	4
	4.10.2	Friction plate		
	4.10.2.1	– Friction plate broken, no missing parts	K	3
	4.10.2.2	– Friction plate broken, missing part • in contact with metal	Detach wagon ^(A)	4
Buffing and draw gear Buffers Buffer types	5 5.1 5.1.1	Visibly different buffer types at any wagon end • Note buffer head ⁷	K	4
Buffer height	5.1.2	Exceeding tolerance range – $h < 940$ mm (980 mm in the case of coaches) – $h > 1065$ mm • significant difference in buffer height at coupled wagon ends. 	Detach wagon ^(A)	5
Buffer head	5.2			
	5.2.1	Missing, broken, distorted such that it is no longer functional, rectangular plate twisted	Detach wagon ^(A)	5
	5.2.2	Fastening on plunger:		
	5.2.2.1	– one third or more rivets or bolts loose	Detach wagon ^(A)	4
	5.2.2.2	– fewer than one third of rivets or bolts loose	K	3

⁷ Two buffers are to be attached to each end of the wagon, each with the same spring system, buffer category, buffer head size, stroke, and housing type. Buffers that are different only with regard to the buffer head material or due to a replaced buffer head are regarded as identical. The total length of both buffers at each end of the vehicle must be equal.

(A) Restore fitness to run, (B) Rectify load, (C) Instructions from keeper, (D) RID procedure.

Component	Code	Irregularities/Criteria/Notes	Action to be taken	Irregularity class
Buffer head (continued)	5.2.3	Surfaces in contact		
	5.2.3.1	– not lubricated, if both buffer heads are made of metal	Lubricate. If not possible, detach wagon ^(A)	5
	5.2.3.2	– more than 2 sharp-edged grooves measuring > 3 mm in depth and > 50 mm in length	Detach wagon ^(A)	5
	5.2.4	Buffer head insert or plastic plate		
	5.2.4.1	– broken, cracked right through, missing	Detach wagon ^(A)	5
	5.2.4.2	– Shelling/melding > 3 mm in depth and > 25 mm in length	K	4
	5.2.4.3	– Fastening: 2 or more loose/missing bolts	Detach wagon ^(A)	5
Plunger	5.3			
	5.3.1	Missing, broken	Detach wagon ^(A)	5
	5.3.2	Cracked at the transition to buffer head	Detach wagon ^(A)	5
	5.3.3	Function jeopardised		
	5.3.3.1	Cracked longitudinally and no longer capable of guiding buffer casing	Detach wagon ^(A)	5
	5.3.3.2	More than 2 grooves distributed over the circumference, each > 2 mm in depth, sharp-edged, and > 60 mm in length	Detach wagon ^(A)	5
	5.3.4	Plunger stopping or securing device		
	5.3.4.1	– Missing, ineffective	Detach wagon ^(A)	5
	5.3.4.2	– Displaced	K	4
Buffer casing	5.4			
	5.4.1	Missing, broken	Detach wagon ^(A)	5
	5.4.2	Cracked at transition to buffer base	Detach wagon ^(A)	5
	5.4.3	Function jeopardised		
	5.4.3.1	Cracked longitudinally and no longer capable of guiding plunger	Detach wagon ^(A)	5
	5.4.3.2	More than 2 grooves distributed over the circumference, each > 2 mm in depth, sharp-edged, and > 60 mm in length	Detach wagon ^(A)	5

(A) Restore fitness to run, (B) Rectify load, (C) Instructions from keeper, (D) RID procedure.

Component	Code	Irregularities/Criteria/Notes	Action to be taken	Irregularity class
Buffer casing (continued)	5.4.4	Fastening of buffer casing defective:		
	5.4.4.1	– 2 or more bolts loose <ul style="list-style-type: none"> • play between buffer casing and headstock 	Tighten bolts + M, if not possible, detach wagon ^(A)	5
	5.4.4.2	– 1 bolt missing	Replace + M, if not possible, detach wagon ^(A)	3
	5.4.4.3	– 1 bolt loose	Tighten + M, if not possible, K	3
Buffer spring and anti-crash components	5.5			
	5.5.1	Buffer so slack that it can be de-pressed by hand: <ul style="list-style-type: none"> – one buffer, by more than 15 mm – both buffers at the same end 	Detach wagon ^(A)	4
	5.5.2	Anti-crash components triggered <ul style="list-style-type: none"> • buffer length visibly reduced • yellow marker arrow partly or completely absent⁸ • plunger damaged or deformed⁸ • indicator missing or distorted⁸ 	Detach wagon ^(A)	5
	5.5.3	Anti-crash component warning mark missing or incomplete	Detach wagon ^(A)	4
Screw coupler	5.6			
	5.6.1	Inoperative		
	5.6.1.1	Damaged or part missing	Rectify or use a different screw coupling + K, if not possible, detach wagon ^(A)	3
	5.6.1.2	Lack of lubricant and jammed	Rectify, if not possible, K	3
	5.6.2	Hook for hanging coupler damaged, inoperative or missing	M	3
	5.6.3	Coupler unhooked	Hook into position and tie up if necessary	3

⁸ Depending on buffer type

(A) Restore fitness to run, (B) Rectify load, (C) Instructions from keeper, (D) RID procedure.

Component	Code	Irregularities/Criteria/Notes	Action to be taken	Irregularity class
Draw hook	5.7			
	5.7.1	Inoperative or in poor condition		
	5.7.1.1	– broken, cracked (including tip)	If possible, use the other coupling, K. If not possible, detach wagon ^(A)	3
	5.7.1.2	– twisted	K	3
	5.7.2	- reserved -		
Other draw gear parts	5.8			
	5.8.1	Other draw gear parts damaged <ul style="list-style-type: none"> – length of coupler such that the buffer heads cannot be brought into contact with each other – drawbar broken, cracked or distorted – muffs, bolts, or keys broken, cracked, missing – spring inoperative • obvious abnormal projection of draw hook from draw hook guide 	Detach wagon ^(A)	4
	5.8.2	Faulty coupling on the train	Adjust coupling	4
Long-stroke damper (e.g., on container wagons)	5.9			
	5.9.1	Sliding element not in mid-position with respect to wagon underframe <ul style="list-style-type: none"> • the two headstocks are at different distances from wagon body 	Detach wagon ^(A)	5
	5.9.2	Danger marking (diagonal black bands on yellow background) missing on overlapping wagon surfaces on which the front part is liable to be displaced in relation to the underframe during impact (impact absorption devices, etc.)	Detach wagon ^(A)	4
Automatic coupling	5.10			
	5.10.1 ⁹	Automatic coupling fault (observed and reported during performance of coupling)	Rectify, if not possible, detach wagon ^(A)	4
	5.10.2	Coupler head damaged	M	3
	5.10.3	Uncoupling device damaged	M	3
	5.10.4	Support, draw bar damaged	M	3

⁹ Automatic coupling fault – observed separately to the technical inspection during a special inspection

(A) Restore fitness to run, (B) Rectify load, (C) Instructions from keeper, (D) RID procedure.

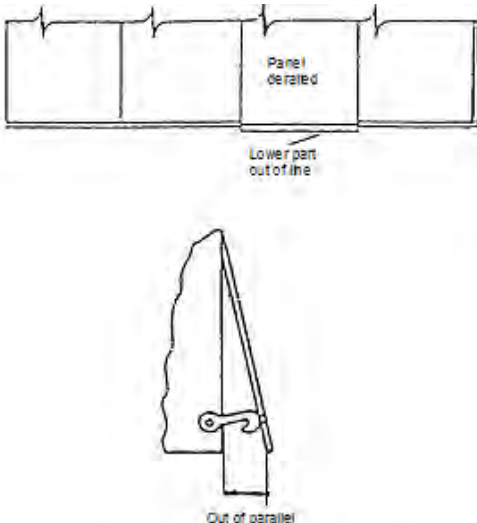
Component	Code	Irregularities/Criteria/Notes	Action to be taken	Irregularity class
Wagon body	6			
Wagon body in general Markings on wagons	6.1			
	6.1.1	Missing, illegible or incomplete		
	6.1.1.1	– Wagon number ¹⁰	Detach wagon ^(A)	4
	6.1.1.2	– “RIV” sign, “TEN” + “GE” or acceptance marking (“TEN” + “G1”, country acronym in approval plate) ¹⁰ or	Detach wagon ^(A)	4
	6.1.1.3	– agreement plate (if showing exchange codes 41, 43, 45, 81, 83 or 85) ¹⁰ or acceptance marking (“TEN” + “CW”, country acronym in approval plate) ¹⁰	Detach wagon ^(A)	4
	6.1.1.4	– tare weight ¹⁰	Detach wagon ^(A)	4
	6.1.1.5	– holding force of parking brake ¹⁰	Detach wagon ^(A)	4
	6.1.1.6	– load limits ¹⁰	Detach wagon ^(A)	4
	6.1.1.7	– capacity of tank wagons ¹⁰	Detach wagon ^(A)	4
	6.1.1.8	– both the VKM and full address of wagon keeper ¹⁰	Detach wagon ^(A)	4
	6.1.1.9	– length-over-buffers of wagon ¹⁰	Detach wagon ^(A)	4
	6.1.1.10	– “High voltage” warning sign on wagons with step or ladder access up to a height > 2 m above rail level	Detach wagon ^(A)	4
	6.1.1.11	– indication of compatibility with ILUs on carrying wagon ¹⁰	Detach wagon ^(A)	4
	6.1.1.12	- reserved -		
	6.1.1.13	- reserved -		
Overhaul	6.1.2	Overhaul marking		
	6.1.2.1	Inscription on the maintenance plate missing, incomplete or illegible ¹⁰	Detach wagon ^(A)	4

¹⁰ If this irregularity is only found on one side of the wagon: affix K

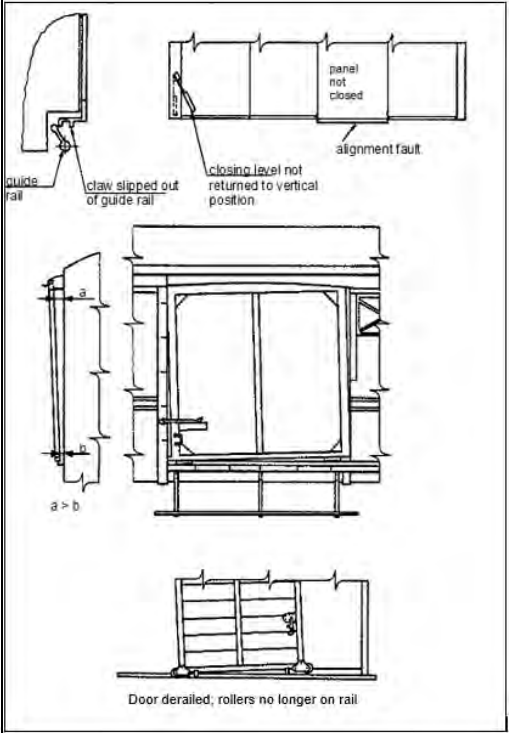
(A) Restore fitness to run, (B) Rectify load, (C) Instructions from keeper, (D) RID procedure.

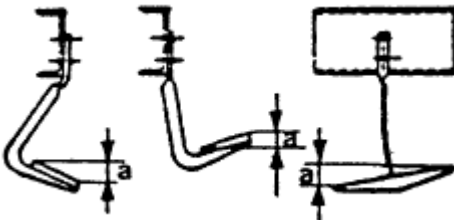
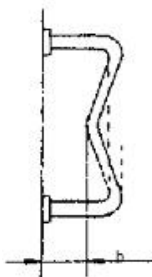
Component	Code	Irregularities/Criteria/Notes	Action to be taken	Irregularity class
Overhaul <i>(continued)</i>		Maintenance plate (Possible extension of validity if wagons marked "+ 3M")		
	6.1.2.2	Validity expires in 15 days or less	K	3
	6.1.2.3	Validity has expired ≤ 6 months	Proceed in accordance with point 1 of Annex 8	4
	6.1.2.4	Validity has expired > 6 months	Proceed in accordance with point 1 of Annex 8	4
Framework	6.1.3	Part of framework damaged		
	6.1.3.1	– without fouling the loading gauge	K	3
	6.1.3.2	– with fouling the loading gauge	Detach wagon ^(A)	5
Walls	6.1.4			
	6.1.4.1	Side plank missing, broken, split or coming undone; wall panel holed, broken	K	3
	6.1.4.2	Risk of damage to load due to humidity; risk of loss of load	Rectify if necessary + K. If not possible, detach wagon ^(B)	4
Floors	6.1.5	Floor damaged		
	6.1.5.1	– with no risk of loss of load	K	3
	6.1.5.2	– with risk of loss of load	Rectify if necessary + K. If not possible, detach wagon ^(B)	4

(A) Restore fitness to run, (B) Rectify load, (C) Instructions from keeper, (D) RID procedure.

Component	Code	Irregularities/Criteria/Notes	Action to be taken	Irregularity class
Doors and sliding walls	6.1.6 6.1.6.1	Not fully closed or not fastened	Close and/or secure. If not possible, fasten + K. If fastening is not possible, detach wagon ^(A)	5
	6.1.6.2	Missing or derailed <ul style="list-style-type: none"> abnormal position in relation to its frame  <p>The diagram consists of two parts. The top part is a side-view cross-section of a wagon's sliding wall assembly. It shows four rectangular panels within a frame. The third panel from the left is shifted downwards and to the right, with a label 'Panel derailed' pointing to it. Below this, a label 'Lower part out of line' points to the bottom edge of the derailed panel. The bottom part of the diagram is a top-down view of a door or panel. It shows a rectangular shape with a handle or latch on the right side. The right edge is curved away from the rest of the rectangle, with a label 'Out of parallel' pointing to it.</p>	If putting back in position is possible, fasten + K. If not possible, detach wagon ^(A)	5

(A) Restore fitness to run, (B) Rectify load, (C) Instructions from keeper, (D) RID procedure.

Component	Code	Irregularities/Criteria/Notes	Action to be taken	Irregularity class
		 <p>The diagrams illustrate various door irregularities:</p> <ul style="list-style-type: none">Top Left: A detail of a door latch mechanism with labels: "guide rail", "claw slipped out of guide rail", and "closing level not returned to vertical position".Top Right: A side view of a door assembly with labels: "panel not closed" and "alignment fault".Middle Left: A side view of a door frame with dimensions "a" and "b" and the note "a > b".Middle Right: A front view of a door frame.Bottom: A side view of a door on a track with the label "Door derailed; rollers no longer on rail".		

Component	Code	Irregularities/Criteria/Notes	Action to be taken	Irregularity class
Doors and sliding walls (continued)	6.1.6.3	Guiding or locking elements in poor condition – door frame, hinges, locks, latch hooks, handles missing, broken; dislocated, deformed	Temporary repair + K. If not possible, detach wagon ^(B) (A)	3
	6.1.6.4	– safety hazard or risk of loss of load		5
	6.1.6.5	Doors broken or warped – no risk of fouling the gauge or losing the load	Temporary repair + K. If not possible, detach wagon ^(B) (A)	3
	6.1.6.6	– risk of gauge being fouled or loss of load		5
Various parts (steps, handles, ladders, gangways, guard rails, inscription plates and others)	6.1.7			
	6.1.7.1	Ladders, gangways, guard rails in poor condition, unusable	K	4
	6.1.7.2	Steps: missing	K	4
	6.1.7.3	Steps: damage representing a safety hazard for staff, torn off or deformed beyond tolerated limit ($a > 80$ mm) 	Detach wagon ^(A)	4
	6.1.7.4	Handles: missing, damage representing a safety hazard for staff, torn off or deformed beyond tolerated limit ($b < 60$ mm) 	Temporary repair + M. If not possible, detach wagon ^(A)	4

(A) Restore fitness to run, (B) Rectify load, (C) Instructions from keeper, (D) RID procedure.

Component	Code	Irregularities/Criteria/Notes	Action to be taken	Irregularity class
Various parts (steps, handles, ladders, gangways, guard rails, inscription plates and others) <i>(continued)</i>	6.1.7.5	Inadequate securing of <ul style="list-style-type: none"> – inscription plates – folding plates – label holders 	Temporary repair + M. If not possible, detach wagon ^(A)	4
	6.1.7.6	Missing <ul style="list-style-type: none"> – inscription plates – folding plates – label holders 	Temporary labels + K. If not possible, detach wagon ^(A)	3
	6.1.7.7	Loose wagon accessories missing or incomplete	M	3
	6.1.7.8	Loose wagon accessories not secured	Fasten	4
	6.1.7.9	Signal brackets, rope eyes missing, unfit for use	M	3
Internal fittings¹¹	6.1.8	Defective internal fittings: <ul style="list-style-type: none"> – holding arm – guide rail – loading cradle – loops, hooks, eyelets – dividing walls 	Temporary repair, rectify using additional fastenings +M. If not possible, detach wagon ^(B)	3
	6.1.8.2			5
Covered wagons	6.2			
Ventilation flaps	6.2.1	Missing, damaged		
	6.2.1.1	– without any risk of damage due to humidity or fouling of the loading gauge	Rectify + K. If not possible, detach wagon ^(B)	3
	6.2.1.2	– with risk of damage due to humidity or fouling of the gauge	Detach wagon ^(B)	5

¹¹ Defective internal fittings: Observed during a special inspection separate to the technical inspection

(A) Restore fitness to run, (B) Rectify load, (C) Instructions from keeper, (D) RID procedure.

Component	Code	Irregularities/Criteria/Notes	Action to be taken	Irregularity class
Control gear, shutter retaining bracket	6.2.2	Unhooked, distorted, loose	Rectify + K. If not possible, detach wagon ^(B) (A)	3
	6.2.2.1	– without any risk of fouling the gauge		
	6.2.2.2	– with risk of fouling the gauge		5
Roof and weatherboard	6.2.3	Roof cover or weatherboard loose, compromising safety or water tightness	Detach wagon ^(A)	4
Opening roof	6.2.4			
	6.2.4.1	– not fully closed, not secured	Close and lock if necessary + K. If not possible, detach wagon ^(A)	5
	6.2.4.2	– derailed (opening roof)	Set back in rails and secure. If not possible, detach wagon ^(A)	5
	6.2.4.3	– control mechanism missing, distorted, ineffective	K	4
Open wagons Side walls or end flaps	6.3			
	6.3.1	Damaged		
	6.3.1.1	– with no risk of losing the load or fouling the gauge	M	3
	6.3.1.2	– with risk of losing load	Rectify + K. If not possible, detach wagon ^(B)	4
	6.3.1.3	– with risk of fouling the gauge	Rectify + K. If not possible, detach wagon ^(A)	5
Closing and operating gear of end flaps	6.3.2	Pins, camshafts, retaining hooks, shaft supports, etc. missing, broken, cracked, inoperative		
	6.3.2.1	– without compromising safety	Repair temporarily + K. If not possible, detach wagon ^(B) (A)	3
	6.3.2.2	– compromising safety		5

(A) Restore fitness to run, (B) Rectify load, (C) Instructions from keeper, (D) RID procedure.

Component	Code	Irregularities/Criteria/Notes	Action to be taken	Irregularity class
Cantrail	6.3.3	Broken or deformed	Rectify + K. If not possible, detach wagon ^(B) (A)	3
	6.3.3.1	– with no risk of fouling the gauge		
	6.3.3.2	– with risk of fouling the gauge		5
Flat wagons Drop sides	6.4	Folded down and not secured	Secure. If not possible, detach wagon ^(A)	5
	6.4.1			
	6.4.1.1	Folded down and not secured	Secure. If not possible, detach wagon ^(A)	5
	6.4.1.2	Folded but not authorised in Table 3 of the Loading Guidelines	Raise. If not possible, detach wagon ^(A)	5
	6.4.1.3	Distorted with no risk of losing load or fouling the gauge	M	3
	6.4.1.4	Holed or distorted with risk of losing load	Rectify + K. If not possible, detach wagon ^(B)	4
	6.4.1.5	Distorted with risk of fouling the gauge	Rectify + K. If not possible, detach wagon ^(A)	5
Hinges, pins, securing bolts	6.4.2	Missing, inoperative, broken	Repair temporarily + K. If not possible, detach wagon ^(B) (A)	3
	6.4.2.1	– but not compromising safety or involving risk of loss of load		
	6.4.2.2	– compromising safety or involving risk of loss of load		4
Stanchions - detachable - pivoting - retractable	6.4.3	Missing and necessary to secure load	If not possible to rectify, detach wagon ^(B) (A)	5
	6.4.3.1			
	6.4.3.2	Deformed and fouling the gauge		5
	6.4.3.3	Crack or break in stanchion or in its mounting or fixing device	If presence of stanchion is required: detach wagon ^(B) . If not possible, M	4
	6.4.3.4	Stanchion chains hanging loose	Rectify	4
	6.4.3.5	Stanchion fastening ineffective	Fasten, K. If not possible, detach wagon ^(B)	4

(A) Restore fitness to run, (B) Rectify load, (C) Instructions from keeper, (D) RID procedure.

Component	Code	Irregularities/Criteria/Notes	Action to be taken	Irregularity class
Bolsters	6.4.4			
	6.4.4.1	Broken, timber bearing surface or joint unfit for use	M	3
	6.4.4.2	Loose bolsters not secured by side stanchions or load	Rectify. If not possible, detach wagon ^(B)	4
Tank wagons Tank cradle	6.5			
	6.5.1			
	6.5.1.1	Crack extending > ¼ across the cross-section	If empty: K If loaded, detach wagon ^(A)	4
	6.5.1.2	Crack in the weld seams		4
	6.5.1.3	Up to 10% of the bolts or rivets securing tank body to cradle missing	K	4
	6.5.1.4	More than 10% of the bolts or rivets securing tank body to cradle missing	Detach wagon ^(A)	4
Tank	6.5.2			
	6.5.2.1	Not tight: leaks or risk of loss of load <ul style="list-style-type: none"> • Odours • Traces of recent or persistent leakage 	Sealing + K, for RID: to have cleaned by competent staff. If not possible, detach wagon ^(D)	5
	6.5.2.2	Distorted with sharp edges but no risk of loss of load	K	4
		Test date expired, RID load Without "L" marking		
		Tank full:		
	6.5.2.3	– Deadline has expired ≤ 1 month	K	4
	6.5.2.4	– Deadline has expired > 1 month	Detach wagon ^(D)	5
	6.5.2.5	Tank empty, not cleaned: RID "CARRIAGE IN ACCORDANCE WITH 4.3.2.4.4" IS entered in the transport document	K	4
	6.5.2.6	- reserved -		
	6.5.2.7	- reserved -		
	6.5.2.8	RID "CARRIAGE IN ACCORDANCE WITH 4.3.2.4.4" IS NOT entered in the transport document	Detach wagon ^(D)	5

(A) Restore fitness to run, (B) Rectify load, (C) Instructions from keeper, (D) RID procedure.

Component	Code	Irregularities/Criteria/Notes	Action to be taken	Irregularity class
		Test date expired, RID load With "L" marking		
		Tank full:		
	6.5.2.9	Deadline has expired ≤ 3 months	K	4
	6.5.2.10	Deadline has expired > 3 months	Detach wagon ^(D)	5
	6.5.2.11	Tank empty, not cleaned: RID "CARRIAGE IN ACCORDANCE WITH 4.3.2.4.4" IS entered in the transport document	K	4
	6.5.2.12	RID "CARRIAGE IN ACCORDANCE WITH 4.3.2.4.4" IS NOT entered in the transport document	Detach wagon ^(D)	5
Tank equipment	6.5.3	Tank cladding, sunroof, insulation		
	6.5.3.1	– damaged	K	4
	6.5.3.2	– loose	Detach wagon ^(A)	5
	6.5.4	- reserved -		
Reinforcement, filling and emptying equipment, underneath	6.5.5			
	6.5.5.1	Loss of load	Rectify. If not possible, detach wagon ^(D)	5
	6.5.5.2	- reserved -		
	6.5.5.3	Valves or spouts defective	Detach wagon ^(D)	4
	6.5.5.4	Screw caps must be tightly sealed and must not be missing (except for outside gas pipes) – RID load ¹²	Rectify. If not possible, detach wagon ^(D)	4
	6.5.5.5	– non-RID load	Rectify. If not possible, M	3
	6.5.5.6	Blind flange missing	Detach wagon ^(D)	4
	6.5.5.7	Securing bolt of the blind flange – RID load ¹² , one or more securing bolts missing or loose	Detach wagon ^(D)	4
	6.5.5.8	– non-RID load, one securing bolt missing or loose	Rectify. If not possible, K	3

¹² Clarification: pay attention to the hazard warning labels

(A) Restore fitness to run, (B) Rectify load, (C) Instructions from keeper, (D) RID procedure.

Component	Code	Irregularities/Criteria/Notes	Action to be taken	Irregularity class
Reinforce-ment, filling and emptying equipment, underneath <i>(continued)</i>	6.5.5.9	– non-RID load, several securing bolts missing or loose bottom valve indicator device not in “closed” position on both sides	Rectify. If not possible, detach wagon ^(D)	4
	6.5.5.10	Bottom valve indicator device not showing “closed” on both sides – loaded wagons, and empty wagons that have not been cleaned (RID load ¹²)	Close bottom valve. If not possible, detach wagon ^(D)	5
	6.5.5.11	– empty wagons (non-RID load)	Close bottom valve. If not possible, K	3
	6.5.5.12	Bottom valve emergency control device screwed in (tank-mounted valve open)	Detach wagon ^(D)	5
	6.5.5.13	Filling and emptying equipment open	Rectify. If not possible, detach wagon ^(D)	5
	6.5.5.14	Visible locking devices ineffective	Rectify. If not possible, detach wagon ^(D)	4


¹² Clarification: pay attention to the hazard warning labels

(A) Restore fitness to run, (B) Rectify load, (C) Instructions from keeper, (D) RID procedure.

Reinforce- ment, filling equipment, above	6.5.6			
	6.5.6.1	Loss of load or gas near the upper reinforcements (does not concern ventilation devices) <ul style="list-style-type: none"> • Odours • Signs of recent or persistent leakage 	Detach wagon ^(D)	5
	6.5.6.2	Dome cover open or missing	Close or have closed. If not possible, detach wagon ^(D)	5
	6.5.6.3	Other upper reinforcements not closed	Close or have closed. If not possible, detach wagon ^(D)	4
	6.5.7	- reserved -		

Component	Code	Irregularities/Criteria/Notes	Action to be taken	Irregularity class
Wagons with special fittings Wagons with mechanical sheeting (e.g. Rils and Tams)	6.6			
	6.6.1			
	6.6.1.1	Mechanical sheeting not properly closed and locked, damaged <ul style="list-style-type: none"> indicator visible → side closing system open end hoops inclined → upper locking system not engaged intermediate hoop bent → fouling the gauge guide wheels → derailed, damaged, broken seal → dislodged or missing 	Rectify. If not possible, detach wagon ^(A)	5
	6.6.1.2	Tarpaulin – tarpaulin torn, holed ≤ 30 mm	Rectify	3
	6.6.1.3	Tarpaulin – tarpaulin torn, holed > 30 mm	Detach wagon ^(A)	5
	6.6.1.4	Tarpaulin – eyelet missing, torn off	Rectify + K. If not possible, detach wagon ^(A)	4
	6.6.1.5	Tarpaulin rope – slack or severed and visible from the outside	Secure + K, if not possible, detach wagon ^(A)	4

(A) Restore fitness to run, (B) Rectify load, (C) Instructions from keeper, (D) RID procedure.

Component	Code	Irregularities/Criteria/Notes	Action to be taken	Irregularity class
Wagons with telescopic hood (e.g. Shimms)	6.6.2			
	6.6.2.1	Hood not locked 	Lock. If not possible, make secure+ K. If not possible, detach wagon ^(A)	5
	6.6.2.2	External hood off the rail	Detach wagon ^(A)	5
Flat bogie wagons for transport of road vehicles (e.g. Saad)	6.6.3			
	6.6.3.1	Moveable headstocks damaged	K	4
	6.6.3.2	Moveable headstocks not locked into place on both sides	Lock. If not possible, detach wagon ^(A)	5
	6.6.3.3	Seating device, seating device bolt, securing chains or chain eyelets not working	Rectify. If not possible, detach wagon ^(A)	4
	6.6.3.4	Wheel scotches damaged	M	3
ACTS ^{*)} carrier wagons with swivel frame ^{*)} Roll on/off container transport system	6.6.4			
	6.6.4.1	Swivel frame damaged	K	4
	6.6.4.2	Locking device preventing the frame from swiveling ineffective or unlocked – locking lever not secured or locked in position ¹³ – stanchions not in position and not secured ¹³ – snap lock (safety bolt) defective and handle in unlocked position ¹³	Secure and lock. If not possible, detach wagon ^(B)	5
	6.6.4.3	Pneumatic monitoring system on the swivel lock not in service and not labelled	Switch on	4

¹³ Rules for the use of the swivel frame system to be complied with

(A) Restore fitness to run, (B) Rectify load, (C) Instructions from keeper, (D) RID procedure.

Component	Code	Irregularities/Criteria/Notes	Action to be taken	Irregularity class
ACTS ^{*)} carrier wagons with swivel frame ^{*)} Roll on/off container transport system (continued)	6.6.4.4	Pneumatic monitoring system on the swivel lock triggered	Check swivel lock. If no fault found, disconnect monitoring system + K	3
	6.6.4.5	Device to prevent container lifting ineffective – locking lever not secured or locked in position ¹³	Secure. If not possible, detach wagon ^(B)	5
	6.6.4.6	Device to prevent containers moving ineffective ¹³	Detach wagon ^(B)	5
Car-carrying wagons	6.6.5			
	6.6.5.1	Damage to lifting and lowering equipment, crossing gangways and footplates	K	4
	6.6.5.2	Damage to wheel scotch, wheel guides or crank handle	M	3
	6.6.5.3	End boards and crossing gangways – where required – not raised and secured	Rectify. If not possible, detach wagon ^(A)	4
	6.6.5.4	Upper loading deck, indicator device not engaged	Secure	4
	6.6.5.5	Upper loading deck not secured	Secure. If not possible, detach wagon ^(A)	5
	6.6.5.6	Upper loading deck not resting on supporting bracket (suspended by cables)	Rectify. If not possible, detach wagon ^(B)	5
	6.6.5.7	Upper deck loaded but fouling the gauge	Detach wagon ^(B)	5

¹³ Rules for the use of the swivel frame system to be complied with

(A) Restore fitness to run, (B) Rectify load, (C) Instructions from keeper, (D) RID procedure.

Component	Code	Irregularities/Criteria/Notes	Action to be taken	Irregularity class
Car-carrying wagons (continued)	6.6.5.8	Gangways above central axles not fully maneuverable on loaded wagons <ul style="list-style-type: none"> distance: ≤ 100 mm between wheel of vehicle and gangway 	Rectify. If not possible, detach wagon ^(A)	5
		Mechanical damage to support and fastening of crossover plates on central axles <ul style="list-style-type: none"> distorted, breakage, cracking, missing parts 		
	6.6.5.9	– empty wagon	K	4
	6.6.5.10	– loaded wagon	Detach wagon ^(B)	5
Self-discharging wagons (ex. Ucs, Uacs, Tads Fals, Tals, ...)	6.6.6	Discharge valve not closed and/or not locked		
	6.6.6.1	– empty wagon with axial flap	Close and lock. If not possible, K	3
	6.6.6.2	– loaded wagon with axial flap	Close and lock. If not possible, detach wagon ^(B)	4
	6.6.6.3	– empty wagon with lateral flap	Close and lock. If not possible, detach wagon ^(A)	4
	6.6.6.4	– loaded wagon with lateral flap	Close and lock. If not possible, detach wagon ^(B)	4
Wagons with securing equipment (e.g., Snps, Roos, Ealos)	6.6.7			
	6.6.7.1	Unused securing equipment not properly or adequately fixed, stowed or secured	Rectify. If not possible, make safe + K	4
Wagons with hydraulic equipment	6.6.8			
	6.6.8.1	Leak <ul style="list-style-type: none"> Continuous dripping Oil spillage 	Rectify. If not possible, detach wagon ^(A)	4

(A) Restore fitness to run, (B) Rectify load, (C) Instructions from keeper, (D) RID procedure.

Component	Code	Irregularities/Criteria/Notes	Action to be taken	Irregularity class
Gear for securing load units (ILU) on carrier wagons	6.7			
	6.7.1	Seating device or spigot distorted or defective		
	6.7.1.1	– seating device not in use	K	3
	6.7.1.2	– seating device in use	Rectify +K. If not possible, detach wagon ^(B)	5
	6.7.1.3	– spigot not in use	K	3
	6.7.1.4	– spigot in use	Rectify +K. If not possible, detach wagon ^(B)	5
	6.7.2	Coupling pin of trailer not locked into trestle	Lock. If not possible, detach wagon ^(B)	5
	6.7.3	Seating device not in use and not locked	Place seating device in its end position and lock. If not possible, secure temporarily + K	3
	6.7.4	Seating adjustment device unlocked and potentially fouling the gauge	Push in and secure seating adjustment device. If not possible, detach wagon ^(A)	5
	6.7.5	Moving parts unlocked (e.g., retractable spigots not secured, handrails for shunters not secured, etc.)		
	6.7.5.1	– no risk of fouling the gauge	Rectify. If not possible, secure	3
	6.7.5.2	– risk of fouling the gauge	Rectify. If not possible, detach wagon ^(A)	5
	6.7.6	Anti-crash system of seating device triggered, damaged elements		
	6.7.6.1	– in use	Detach wagon ^(B)	5
	6.7.6.2	– not in use	K, close emergency stopcock	4

(A) Restore fitness to run, (B) Rectify load, (C) Instructions from keeper, (D) RID procedure.

Component	Code	Irregularities/Criteria/Notes	Action to be taken	Irregularity class
Wagons equipped with various technical components Electrical components	6.8			
	6.8.1	General equipment for fastening components – mechanical damage or loose	Rectify + M	3
	6.8.2	Box wagon, aerial – mechanical damage	M	3
	6.8.3	Cable/plug – torn off or damaged	Rectify + M	3
Loads and intermodal loading units (ILU)	7			
Load in general Distribution of the load (wagon)	7.1			
	7.1.1	Load visibly displaced <ul style="list-style-type: none"> • lashing cords broken • load not positioned properly on blocks • not centrally positioned 	Detach wagon ^(B)	5
	7.1.2	Load unevenly distributed (3.3), body not horizontal <ul style="list-style-type: none"> • different buffer heights (3.5) • unequal suspension spring play (3.5) 	Detach wagon ^{(B)(A)} , proceed as per Annex 8 , point 3	5
Packing, load fastening	7.1.3	Packages, bundles, bales, stacks coming apart or not properly tied together (1.5)	Detach wagon ^(B)	4
	7.1.4	Inadequate binding of narrow, cylindrical objects (1.5)	Detach wagon ^(B)	4
Maximum permissible dimensions of load	7.1.5			
	7.1.5.1	Unauthorised fouling of the gauge (4.1)	Detach wagon ^(B)	5
	7.1.5.2	Fouling of the gauge not indicated <ul style="list-style-type: none"> • U label missing 	Detach wagon ^(B)	5
Reserved spaces	7.1.6	Encroachment of reserved spaces <ul style="list-style-type: none"> • load projecting beyond the head-stock (4.2) 	Detach wagon ^(B)	5

(A) Restore fitness to run, (B) Rectify load, (C) Instructions from keeper, (D) RID procedure.

Component	Code	Irregularities/Criteria/Notes	Action to be taken	Irregularity class
Reserved spaces	7.1.6	Encroachment of reserved spaces <ul style="list-style-type: none"> load projecting beyond the head-stock (4.2) 	Detach wagon ^(B)	5
Load limits	7.1.7	Exceeding of load limits (3.2), visually detected: <ul style="list-style-type: none"> different buffer heights insufficient distance between spring buckle and solebar 	Detach wagon ^{(B)(A)} , proceed as per point 2 of Annex 8	5
	7.1.7.1			
	7.1.7.2	Exceeding of load limits (3.2), detection by: <ul style="list-style-type: none"> discrepancy between consignment data and load limit marked on wagon measuring or diagnostic devices 	Detach wagon ^{(B)(A)} , proceed as per point 2 of Annex 8	5
Buffer wagons	7.1.8	Vertical and horizontal clearances not respected between loads or between buffer wagon and load (4.3)	Detach wagon ^(B)	5
Sheeting, nets	7.1.9	Inadequate, defective or secured with non-compliant fastening equipment (6.1, 6.2)	Rectify. If not possible, detach wagon ^(B)	4
Loss of load	7.1.10	Loss of load (except tank wagons/tank containers), excluding other restrictions (see also codes 6.1.4.2, 6.1.5.2, 6.1.6.4, 6.1.6.6, 6.3.1.2, 6.4.1.4, 6.4.2.2 and 7.5.5.3)	Rectify. If not possible, detach wagon ^(B)	5
Load securing equipment Wagon walls or sides	7.2			
	7.2.1	Load projecting beyond the walls and sides and inadequately secured (5.4.1)	Detach wagon ^(B)	5
	7.2.2	Load clearly pressing against walls, sides or doors and thus hindering their functioning, with risk of damage or operating hazard (2.3)	Detach wagon ^(B)	4
Stanchions	7.2.3			
	7.2.3.1	Load inadequately secured by stanchions (2.5 and 5.4.1)	Detach wagon ^(B)	5
	7.2.3.2	Fastenings between opposite stanchions missing (2.5)	Detach wagon ^(B)	5

(A) Restore fitness to run, (B) Rectify load, (C) Instructions from keeper, (D) RID procedure.

Component	Code	Irregularities/Criteria/Notes	Action to be taken	Irregularity class
Stanchions (continued)	7.2.3.3	Load pressing up against and bending stanchions (2.5)	Detach wagon ^(B)	5
	7.2.3.4	Load which is heavy and/or which may damage side stanchions in the event of longitudinal displacement, pressing up against stanchions (2.5)	Detach wagon ^(B)	4
Scotches fastened with nails	7.2.4	Non-compliant (5.4.3) – insufficient – ineffective – incorrectly fastened on the floor	Detach wagon ^(B)	5
Direct or indirect fastenings (lashing)	7.2.5	Non-compliant (5.4.4, 5.5.4)		
	7.2.5.1	– unsuitable or unauthorised material	Detach wagon ^(B)	5
	7.2.5.2	– incorrectly or inadequately fastened	Rectify. If not possible, detach wagon ^(B)	5
	7.2.5.3	– slack	Rectify. If not possible, detach wagon ^(B)	4
Bolsters, timbers, stretchers, fastening gear	7.2.6			
	7.2.6.1	Non-compliant (5.5.5, 5.6.2, 5.8.1) – damaged – poorly chosen – inadequate – incorrectly arranged – loose	Detach wagon ^(B)	5
	7.2.6.2	Auxiliary loading equipment or fastening gear not removed	Rectify	3
Load residues	7.2.7	Load residues which may compromise safety not removed	Remove. If not possible, detach wagon ^(B)	5
Loading and load securing methods General	7.3			
	7.3.1	Load unstable and wrongly secured (5.1)	Detach wagon ^(B)	5
Goods subject to lifting by airflow (e.g., light scrap, thin boards, bulk goods)	7.3.2	Covering missing or inadequate (5.2.1, 5.3.2)	Detach wagon ^(B)	5

(A) Restore fitness to run, (B) Rectify load, (C) Instructions from keeper, (D) RID procedure.

Component	Code	Irregularities/Criteria/Notes	Action to be taken	Irregularity class
Goods which may fall off on account of vehicle vibrations and impacts (wire metal trelliswork, metal filings etc.)	7.3.3 7.3.3.1	Insufficient clearance between goods and top edge of walls of the wagon (5.2.2) <ul style="list-style-type: none"> load protruding beyond top edges of walls 	Detach wagon ^(B)	5
	7.3.3.2	Dome-shaped load too high (5.3.1)	Detach wagon ^(B)	5
Stacked goods	7.3.4	Wrongly stacked (5.8) <ul style="list-style-type: none"> uneven distribution over floor too high poorly stacked inadequate bindings insufficient clearance between a load liable to sway and loading gauge cylindrical loads inadequately secured 	Detach wagon ^(B)	5
Load with inadequate supporting area, liable to damage the wagon floor	7.3.5 7.3.5.1	Scotches missing or insufficient (2.2) <ul style="list-style-type: none"> floor damaged 	K	3
Concentrated load on flat wagon	7.3.5.2	Excessive concentration of load (3.4) <ul style="list-style-type: none"> scotches in place, unsuitable material used scotches in place, dimensions insufficient pronounced deflection of the wagon underframe 	Detach wagon ^(B) , proceed as per Annex 8 , point 3	5
Load liable to tip	7.3.6	Not secured against overturning (5.7)	Detach wagon ^(B)	5
Tilted load	7.3.7	Insufficiently supported (5.7)	Detach wagon ^(B)	5
Load liable to roll	7.3.8	Inadequately secured against rolling (5.6.1, 5.6.2)	Detach wagon ^(B)	5

(A) Restore fitness to run, (B) Rectify load, (C) Instructions from keeper, (D) RID procedure.

Component	Code	Irregularities/Criteria/Notes	Action to be taken	Irregularity class
Load liable to slide length-ways	7.3.9			
	7.3.9.1	Laid on unsuitable (5.5.1) – timbers – guide blocks – skids	Detach wagon ^(B)	4
	7.3.9.2	Lateral guide-pieces missing or insufficient with risk of fouling the gauge or exceeding load limit (5.5)	Detach wagon ^(B)	5
	7.3.9.3	Necessary clearances missing (5.5.2)	Detach wagon ^(B)	4
	7.3.9.4	Necessary scope for sliding not limited (5.5.3)	Detach wagon ^(B)	4
Special types of consignment Vehicles and machinery on wheels or caterpillar tracks/chains	7.4			
	7.4.1	Unsuitable scotch blocks and/or fastenings (5.6.3)	Rectify. If not possible, detach wagon ^(B)	5
Moving parts of vehicles and machinery	7.4.2	Not properly immobilised		
	7.4.2.1	– no risk of fouling the gauge	Rectify. If not possible, detach wagon ^(B)	3
	7.4.2.2	– risk of fouling the gauge	Detach wagon ^(B)	5
Load supported on several wagons	7.4.3	Not loaded/secured according to requirements (5.9)	Detach wagon ^(B)	5
Specific components of ILU, in particular those used for horizontal or vertical transshipment	7.5			
	7.5.1	Device for locking the dollies inoperative, defective or missing	Bind using wire. If not possible, detach wagon ^(B)	4
	7.5.2	End doors on load units not securely closed or not properly locked		
	7.5.2.1	– door not closed	Close and lock. If not possible, detach wagon ^(B)	5
	7.5.2.2	– Door not properly locked (not applicable to doors facing another load unit) if: • upper cam not engaged or • lower cam not engaged or • horizontal locking lever not engaged	Rectify, if not possible, detach wagon ^(B)	4

(A) Restore fitness to run, (B) Rectify load, (C) Instructions from keeper, (D) RID procedure.

Component	Code	Irregularities/Criteria/Notes	Action to be taken	Irregularity class
Specific components of ILU, in particular those used for horizontal or vertical transshipment (continued)	7.5.2.3	- reserved -		
	7.5.3	Lower corner casting damaged	Detach wagon ^(B)	5
	7.5.4	Side wall, lining damaged, inadequately secured, unstable <ul style="list-style-type: none"> hinges, securing bolts damaged, broken, missing edge plank missing, broken, cracked or split; lining holed or broken 	Detach wagon ^(B)	5
	7.5.5	Tarpaulin	Rectify	3
	7.5.5.1	– tarpaulin torn, holed ≤ 30 mm		
	7.5.5.2	– tarpaulin torn, holed > 30 mm	Detach wagon ^(B)	5
	7.5.5.3	Danger of damage from humidity to the load or loss of load	Rectify, if not possible, detach wagon ^(B)	4
	7.5.6	Tarpaulin, walls <ul style="list-style-type: none"> locking, lashings inadequate sheet; lack of tension/lock damages, inadequate 	Detach wagon ^(B)	5
ILU tank Element connecting tank body and underframe	7.6			
	7.6.1			
	7.6.1.1	Crack > ¼ of the cross-section	Detach wagon ^(B)	4
	7.6.1.2	Cracks in the weld seams	Detach wagon ^(B)	4
Tank¹⁴	7.6.2			
	7.6.2.1	Not tight: leaks or risk of loss of load <ul style="list-style-type: none"> odours traces of recent or persistent leakage 	Sealing, for RID: to have cleaned by competent staff. If not possible, detach wagon ^(B)	5
	7.6.2.2	Distorted with sharp edges but no risk of loss of load	Rectify	4

¹⁴ Clarification: moreover, verify 7.8

(A) Restore fitness to run, (B) Rectify load, (C) Instructions from keeper, (D) RID procedure.

Component	Code	Irregularities/Criteria/Notes	Action to be taken	Irregularity class
Tank equipment	7.6.3	Tank cladding, sunroof, insulation	Rectify	
	7.6.3.1	– damaged		4
	7.6.3.2	– loose	Detach wagon ^(B)	5
Reinforcement, filling and emptying equipment, underneath	7.6.4			
	7.6.4.1	Loss of load	Rectify. If not possible, detach wagon ^(B)	5
	7.6.4.2	Valves or spouts defective	Detach wagon ^(B)	4
	7.6.4.3	Screw cap must be tightly sealed and not missing – RID load ¹⁵	Rectify. If not possible, detach wagon ^(B)	4
	7.6.4.4	– non-RID load	Rectify. If not possible, detach wagon ^(B)	3
	7.6.4.5	Blind flange missing	Detach wagon ^(B)	4
	7.6.4.6	Securing bolt of the blind flange – RID load ¹⁵ , one or more securing bolts missing or loose	Detach wagon ^(B)	4
	7.6.4.7	– non-RID load, one securing bolt missing or loose	Rectify. If not possible, detach wagon ^(B)	3
	7.6.4.8	– non-RID load, several securing bolts missing or loose	Rectify. If not possible, detach wagon ^(B)	4
	7.6.4.9	Bottom valve indicator device not in “closed” position on both sides – loaded load units, and empty wagons that have not been cleaned (RID load ¹⁵)	Close bottom valve. If not possible, detach wagon ^(B)	5
	7.6.4.10	– empty load unit (non-RID load)	Close bottom valve. If not possible, detach wagon ^(B)	3
	7.6.4.11	Bottom valve emergency control device screwed in (tank-mounted valve open)	Detach wagon ^(B)	5

¹⁵ Clarification: pay attention to the hazard warning labels

(A) Restore fitness to run, (B) Rectify load, (C) Instructions from keeper, (D) RID procedure.

Component	Code	Irregularities/Criteria/Notes	Action to be taken	Irregularity class
Reinforcement, filling and emptying equipment, underneath (continued)	7.6.4.12	Filling and emptying equipment open	Rectify. If not possible, detach wagon ^(B)	5
	7.6.4.13	Non-efficient visible locking devices	Rectify. If not possible, detach wagon ^(B)	4
Reinforcement, filling and emptying equipment, above	7.6.5	Loss of load or of gas near the upper reinforcements (does not concern ventilation devices) <ul style="list-style-type: none"> • Odours • Signs of recent or persistent leakage 	Detach wagon ^(B)	5
	7.6.5.1			
	7.6.5.2	Dome cover open or missing	Close or have closed. If not possible, detach wagon ^(B)	5
	7.6.5.3	Other upper reinforcements not closed	Close or have closed. If not possible, detach wagon ^(B)	4
Loading of ILU	7.7			
	7.7.1	ILU too heavy for wagon	Detach wagon ^(B)	5
	7.7.2	Corner castings not engaged on their respective spigots	Detach wagon ^(B)	5
	7.7.3	- reserved -		
	7.7.4	Air suspension system of semi-trailer not emptied	Empty. If not possible, detach wagon ^(B)	5
	7.7.5	Underrun bumpers of semi-trailer: not raised/pushed in, even in the absence of contact with carrier wagon <ul style="list-style-type: none"> – on recess wagons without compatibility codes – on recess wagons marked with one of the following compatibility codes: a, b, c or d 	Rectify (raise/push in and lock)	3
	7.7.6	Semi-trailer with P coding: contact between semi-trailer and wagon (other than wheels and trestle)	Rectify. If not possible, detach wagon ^(B)	4

(A) Restore fitness to run, (B) Rectify load, (C) Instructions from keeper, (D) RID procedure.

Component	Code	Irregularities/Criteria/Notes	Action to be taken	Irregularity class
Loading of ILU <i>(continued)</i>	7.7.7	Semi-trailer with N coding loaded on carrier wagon with wagon compatibility code N (Novatrans system): contact between parts of the semi-trailer and wagon (other than the wheels, skids and longitudinal members in the intended support areas)	Rectify. If not possible, detach wagon ^(B)	4
	7.7.8	Incorrect scotching of wheels of semi-trailer	Rectify. If not possible, detach wagon ^(B)	4
	7.7.9	Load displaced in the ILU <ul style="list-style-type: none"> deformation of sheeting 	Detach wagon ^(B)	5
Marking, coding for intermodal transport	7.8			
	7.8.1	Codings missing or illegible on both sides	Detach wagon ^(B)	5
	7.8.2	ILU incompatible with carrying wagon	Detach wagon ^(B)	5
	7.8.3	Absence of CSC safety plate <ul style="list-style-type: none"> on ILUs with upper corner castings 	Detach wagon ^(B)	4
	7.8.4	Missing warning sign “danger: high voltage” <ul style="list-style-type: none"> on ILUs with steps 	Detach wagon ^(B)	4
Particular incidents	8			
Operating irregularities	8.1 8.1.1	Derailment	Detach ^(A) , proceed following Annex 9, I+K	5
	8.1.2	Abnormal buffering impact	Detach ^(A) , proceed following Annex 9, I+K	5
Other events	8.2 8.2.1	Flood and weather damage	Detach wagon ^(A)	5
	8.2.2	Damage from priming current <ul style="list-style-type: none"> wagon was in contact with catenary under high voltage 	Detach wagon ^(A)	5
	8.2.3	Fire	Detach wagon ^(A)	5

(A) Restore fitness to run, (B) Rectify load, (C) Instructions from keeper, (D) RID procedure.

APPENDIX 9, ANNEX 2

Irregularity Classes

Class	Definition	Value
1	Insignificant irregularities having no effect on a wagon's fitness to run or on operating safety Not considered in the QMS system	0.002
2	Irregularities having small effect on a wagon's fitness to run Not considered in the QMS system	0.050
3	Minor irregularities Irregularities having a considerable effect on a wagon's fitness to run and irregularities having an impact on operations (missing or wrong markings)	0.125
4	Major irregularities Irregularities which render a wagon unfit to run or which jeopardise operations and irregularities which might result in injuries (freight train crews)	0.400
5	Critical irregularities Irregularities with serious consequences for operating safety and irregularities presenting an immediate risk to transport operations	1.000

APPENDIX 9, ANNEX 3

- reserved -

APPENDIX 9, ANNEX 4

Verification using a combined gauge*

The combined gauge may be used to verify qR, Sd, Sh, including projection and false flanges

Fig. 1 – Permissible profile for outer part of flange

Verified using a combined gauge, the qR of the wheel flange must always be greater than 6.5 mm, with no sharp edges or projection on the outer part of the flange over a distance of 2 mm from the top of the flange.

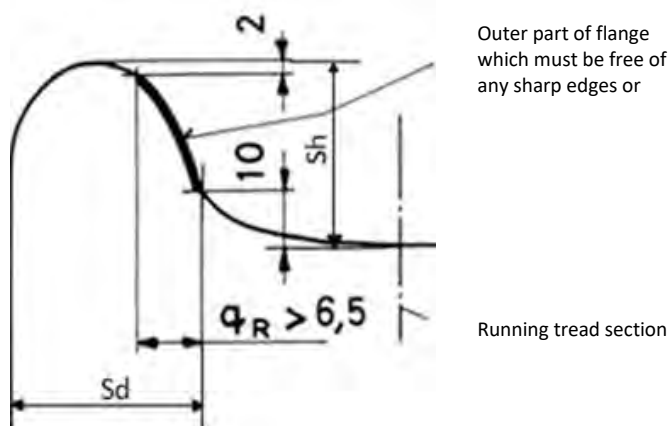


Fig. 2—Dimensions of combined gauge for verifying qR, Sd, Sh, including projections and false flanges

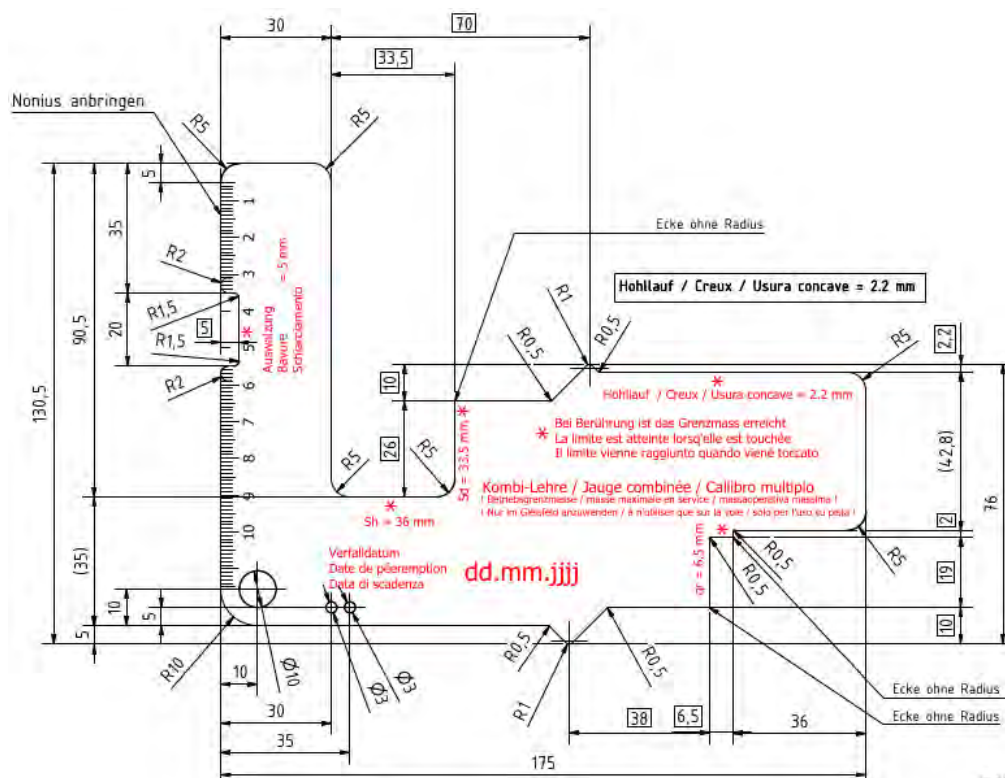


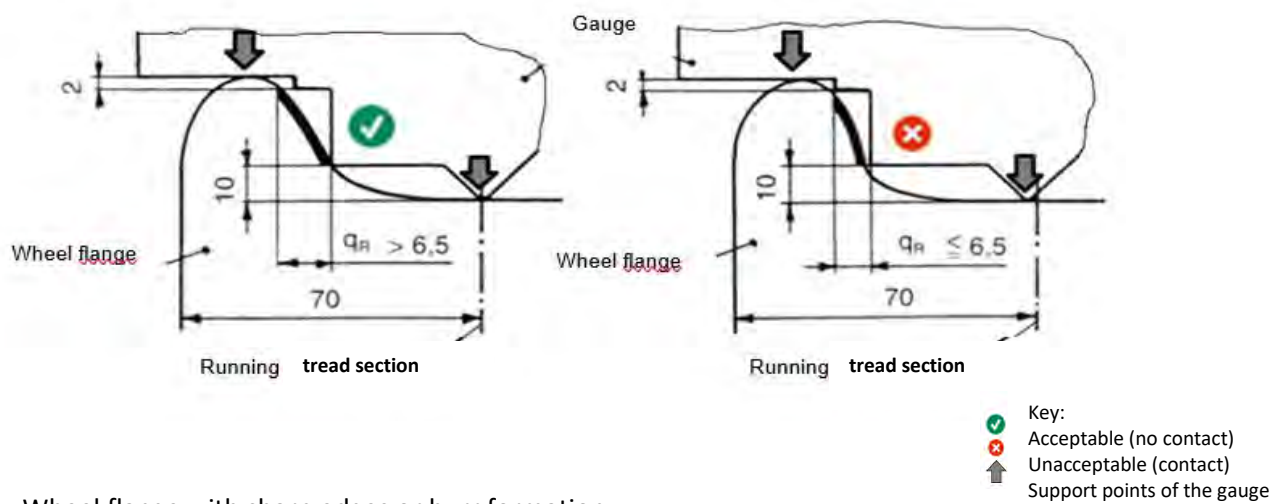
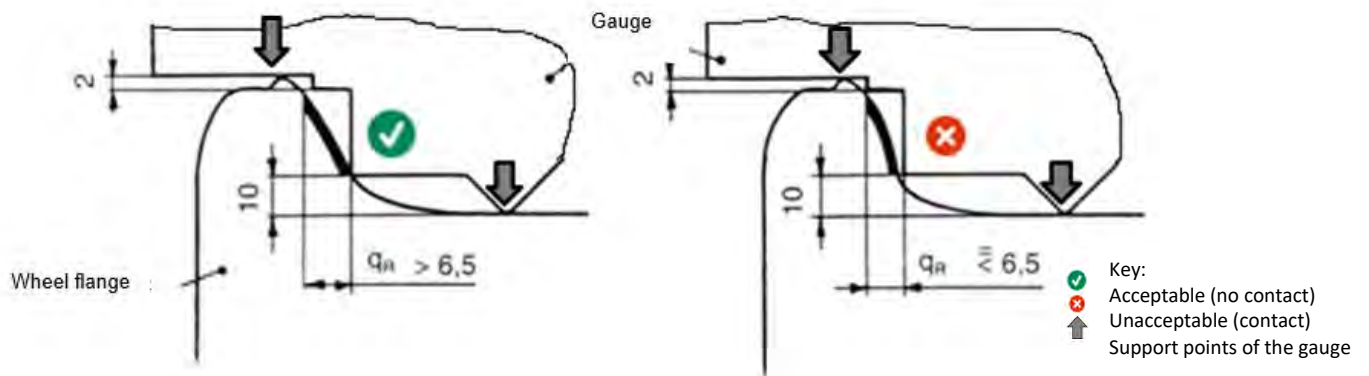
Fig. 3 – Wheel flange**Fig. 4 – Wheel flange with sharp edges or burr formation**

Fig. 5 – Wheel flange height (Sh)

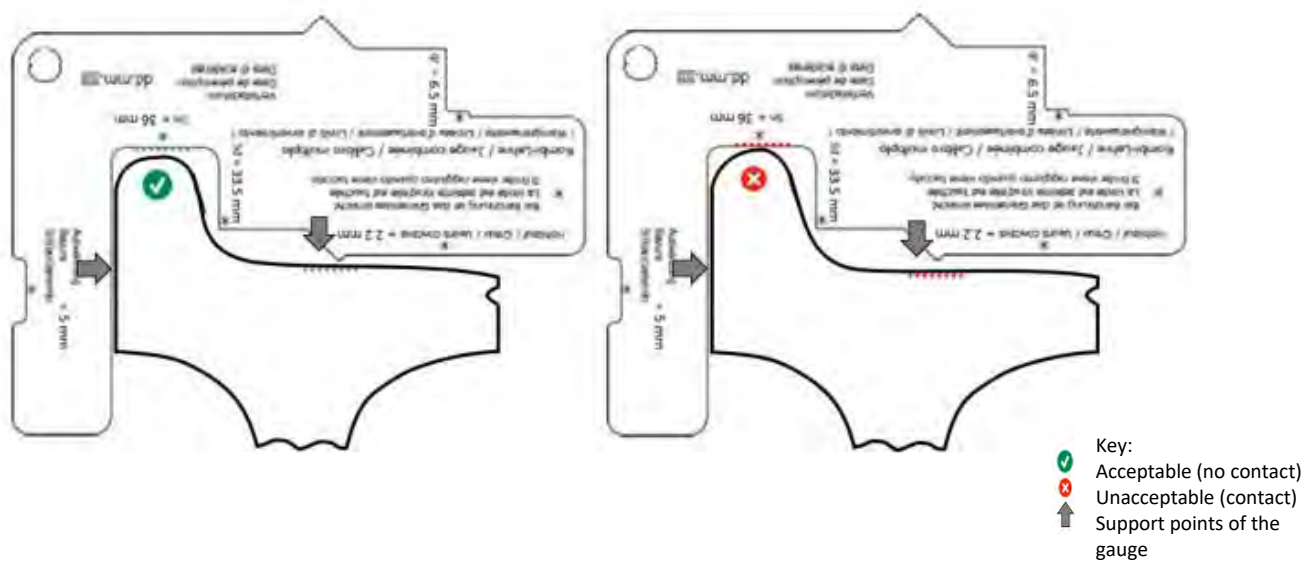


Fig. 6 – Wheel flange thickness (Sh)

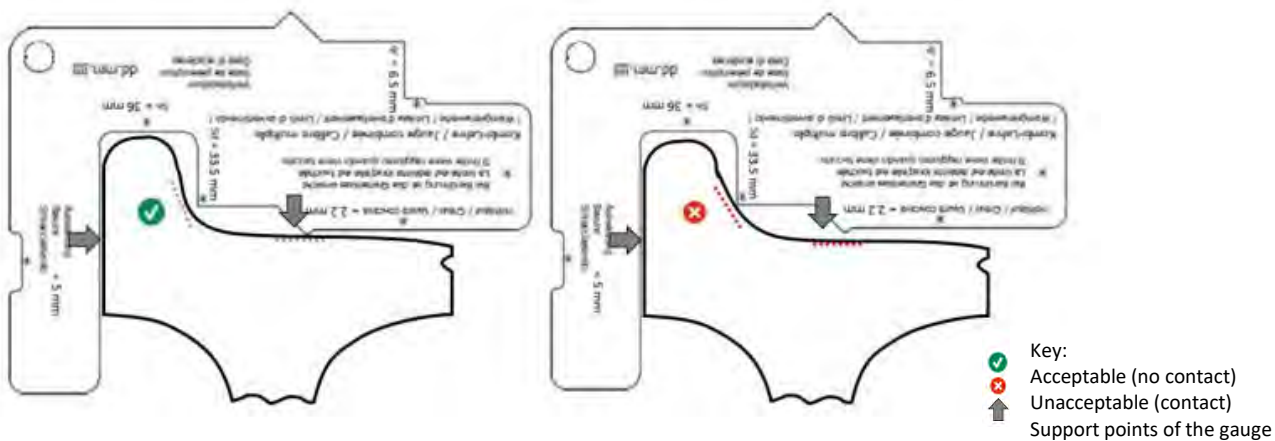
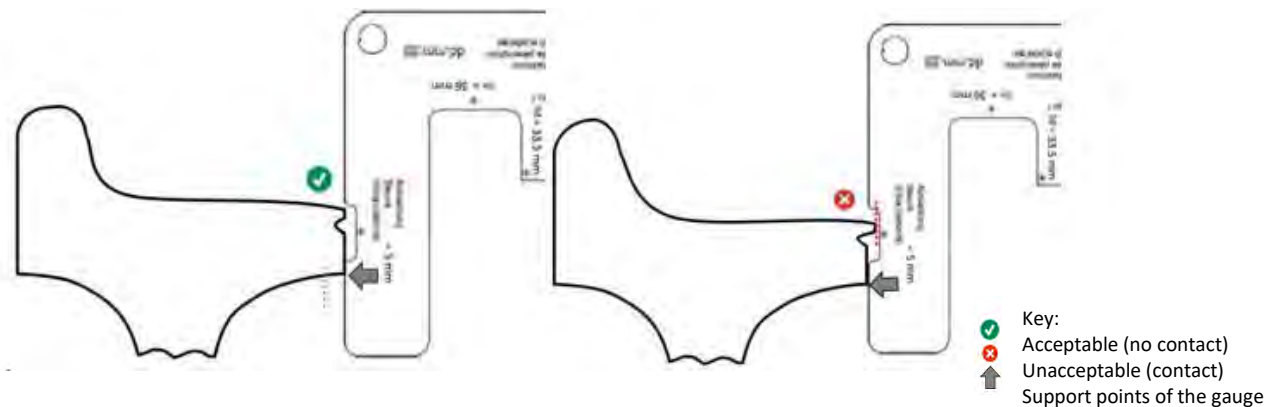
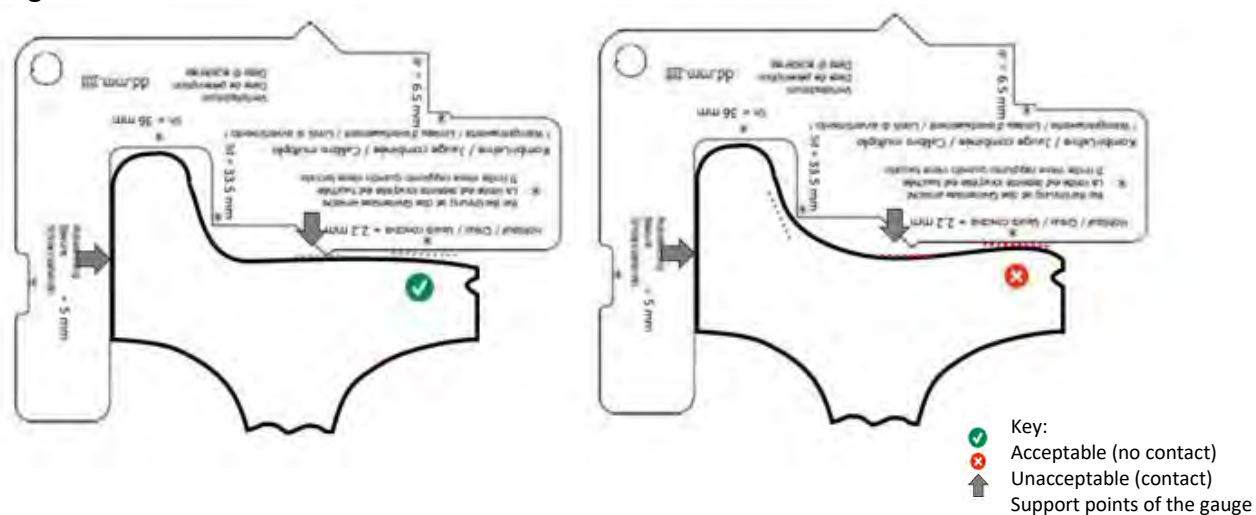


Fig. 7 – Projection

The maximum permissible value for projection (S max) is 5 mm

**Fig. 8 – False flange**

A false flange deeper than 2 mm is not permitted and has been defined as 2.2 mm on the combined gauge



APPENDIX 9, ANNEX 5

Catalogue of inspections in accordance with Annex 1

Code	Wagon	Component	Quality requirement	Control criteria ¹	Irregularity class
1.1.1	All wagons	Thickness of tyre	Compliance with dimensions set	VC, M	4
1.1.2		Tyre	Neither broken nor cracked	VC, HT	5
1.1.3		Tyre	Tight, not turned, clean ring, rust $\leq 1/3$ of circumference	VC, HT	5
1.1.4		Tyred wheel	Control marks present	VC	4
1.1.5		Tyre	Tight, not displaced laterally	VC, HT	5
1.1.6		Tyre clip	Present, not cracked, not broken	VC	5
1.2.1	All wagons	Tyre (solid wheel)	Groove marking minimum thickness fully visible in cross- section	VC	4
1.2.2.1		Tyre (solid wheel), except wheels marked as able to withstand high thermal stresses	No thermal overload due to braking, tolerance range not exceeded	VC, M	4
1.2.2.2		Tyre (solid wheel), except wheels marked as able to withstand high thermal stresses	No thermal overload due to braking, tolerance range not exceeded	VC, M	5
1.2.2.3		Tyre (solid wheel), wheels marked as able to withstand high thermal stresses	No thermal overload due to braking	VC	3
1.3.1.1	All wagons	Tyre: width B > 139 mm and ≤ 140 mm	Compliance with stipulated tyre width	VC, M	3
1.3.1.2		Tyre: width B > 140 mm, < 133 mm Presence of a protrusion S	Compliance with stipulated tyre width	VC, M	4
1.3.2		Wheel tread	No crushing of wheel tread, no uneven contact surfaces or irregular burrs on the wheel rim	VC	4
1.3.3.1		Wheel tread	Wheel $\varnothing > 840$ mm, no wheel flat > 60 mm long	VC, M	4
1.3.3.2		Wheel tread	Wheel \varnothing : 630 mm < d ≤ 840 mm, no wheel flat > 40 mm long	VC, M	4
1.3.3.3		Wheel tread	Wheel $\varnothing \leq 630$ mm, no wheel flat > 35 mm long	VC, M	4
1.3.4.1		Wheel tread	Wheel $\varnothing > 840$ mm, no build-up of metal > 60 mm long or > 1mm thick	VC, M	4
1.3.4.2		Wheel tread	Wheel $\varnothing > 840$ mm, no build-up of metal > 10 mm ≤ 60 mm long and < 1mm thick	VC, M	3
1.3.4.3		Wheel tread	Wheel \varnothing : 630 mm < d ≤ 840 mm, no build-up of metal > 40 mm long or ≥ 1 mm thick	VC, M	4
1.3.4.4		Wheel tread	Wheel \varnothing : 630 mm < d ≤ 840 mm, no build-up of metal > 10 mm long and < 1mm thick	VC, M	3
1.3.4.5		Wheel tread	Wheel $\varnothing \leq 630$ mm, no build-up of metal > 35 mm long or ≥ 1 mm thick	VC, M	4
1.3.4.6		Wheel tread	Wheel $\varnothing \leq 630$ mm, no build-up of metal > 10 mm ≤ 35 mm long and < 1mm thick	VC, M	3

¹ VC = visual check; M = measurement; HT = hammer test; OP = operate; PM = pull or move the components

Code	Wagon	Component	Quality requirement	Control criteria ¹	Irregularity class
1.3.5.1		Wheel tread	Wheel $\varnothing > 840$ mm, no cavity, shelling or flaking > 60 mm long	VC, M	4
1.3.5.2		Wheel tread	Wheel \varnothing : $630 \text{ mm} < d \leq 840 \text{ mm}$, no cavity, shelling or flaking > 40 mm long	VC, M	4
1.3.5.3		Wheel tread	Wheel \varnothing : ≤ 630 mm, no cavity, shelling or flaking > 35 mm long	VC, M	4
1.3.6.1		Wheel tread	No cracks at the interface between the wheel tread and the front edge	VC	5
1.3.6.2		Wheelset front face, rim and inner tyre rim	No sharp-angled notches on the front face (rim or inner tyre rim) except for markings applied by the manufacturer	VC	4
1.3.6.3		Wheel tread	No damage, no notches	VC	4
1.3.6.4		Wheel tread	No damage, no notches	VC	5
1.3.6.5		Wheel tread	No breaks or cracks in the rim or the web	VC	5
1.3.7		Wheelset front faces	No lubricants or paint, except the 4 control marks	VC	5
1.3.8.1		Wheel tread	No damage	VC	4
1.3.8.2		Wheel tread	No damage, no grooves with sharp edges ≥ 1 mm deep	VC	5
1.3.8.3		Wheel tread	No damage, no furrows and false flanges > 2 mm deep	VC, M	5
1.4.1	All wagons	Flange	Compliance with height Sh	VC, M	4
1.4.2		Flange	Compliance with flange thickness, no worn flange	VC, M	5
1.4.3		Flange	Dimension qR adhered to, no sharp flange	VC, M	5
1.4.4		Flange	No burrs or sharp edges on guide face at a distance $h > 2$ mm from highest point of flange	VC, M	5
1.5.1	All wagons	Wheel centre (solid wheel)	Not cracked, no defects repaired by welding	VC	5
1.5.2		Wheel centre (tyred wheel)	No breaks or cracks in wheel centre, tyre clip, tyre, no defects repaired by welding	VC	5
1.6.1	All wagons	Axle	No damage; no grooving > 1 mm deep, no sharp edges	VC,	5
1.6.2	All wagons	Axle	No damage	VC	4
1.6.3	All wagons	Axle	No part rubbing against axle Check also 1.6.1 and 1.6.2	VC	4

¹ VC = visual check; M = measurement; HT = hammer test; OP = operate; PM = pull or move the components

Code	Wagon	Component	Quality requirement	Control criteria ¹	Irregularity class
1.7.1	All wagons	Wheel	No lateral displacement on axle; compliant value of "E"	VC, M	5
1.7.2		Wheel or immediate vicinity	No more than one of the following criteria on or near a wheel:	VC	4
			Brake triangle pin sheared off		
			Brake safety stirrup broken (see also 3.1.2)		
			Shiny traces on brake triangle end washer		
			Shiny traces on the inner spring (load spring) (see also 2.5)		
			Lifting safety catch (T) missing or loose (see also 2.5.5)		
			On Y25 bogies: hard manganese wear plate on axle boxes or guide missing or welded joints loose (see also 4.4.2)		
			See also 1.3.2		
1.8.1.1	All wagons	Axle box housing	Watertight housing	VC	4
1.8.1.2			No grease or all discharge on the wheel centre	VC	4
1.8.1.3			No trace of grease or all on the housing at the level of the cover	VC	4
1.8.1.4			Axle box cover undamaged	VC	3
1.8.2		Axle box housing	Not twisted, undamaged, guidance assured	VC	5
1.8.3.1		Axle box	No hot boxes	VC, check using the back of the hand	5
1.8.3.2		Axle box	No overheating during transport	VC	5
1.8.4	All wagons with Y bogie or derivative designs	Hard manganese wear plate	Secured, present	VC	4
2.1.1	All wagons	Spring leaves	Displacement < 10 mm with respect to the buckle	VC, M	4
2.1.2		Spring leaves	Main leaf not broken nor visibly cracked	VC	5
2.1.3		Spring leaves	No missing part	VC	4
2.1.4.1		Spring leaves	No crack on any other leaf < 1/4 of length of leaf from buckle centre	VC, M	4
2.1.4.2		Spring leaves	Intact	VC, M	3
2.1.5		Leaf spring	Sufficient spring clearance ≥ 15 mm; no recent traces of contact	VC, M	5
2.1.6		Buckle (leaf spring)	Intact, tight; key present and effective	VC	5

¹ VC = visual check; M = measurement; HT = hammer test; OP = operate; PM = pull or move the components

Code	Wagon	Component	Quality requirement	Control criteria ¹	Irregularity class
2.2.1.1	All wagons	Parabolic spring	No visible fracture or crack	VC	5
2.2.1.2		Parabolic spring	No breakage in buckle (no leaves touching for over 50% of their length)	VC	5
2.2.2.1		Parabolic spring	No longitudinal slippage of leaves in excess of 10 mm	VC, M	4
2.2.2.2		Parabolic spring	No longitudinal displacement of leaves	VC	3
2.2.3		Buckle (parabolic spring)	Intact, tight; key effective	VC	5
2.3.1	All wagons	Helical spring	Unbroken	VC	5
2.4.1	All wagons	Buckle boss	In position in its housing	VC	5
2.4.2		Shackle, link	Present and not displaced, damaged or out of position	VC	5
2.4.3		Link pin	Present and secured, not displaced	VC	5
2.4.4		Suspension links	Neither worn nor too long	VC	4
2.5.1	All wagons	Helical spring: main spring, tare spring	Not broken	VC	5
2.5.2.1	Empty wagons	Helical spring: auxiliary spring, load spring	Unbroken, in position	VC	4
2.5.2.2	Loaded wagons	Helical spring: auxiliary spring, load spring	Unbroken, in position	VC	5
2.5.3.1	All wagons	Damper rings per bogie	No rings missing, broken, damaged or unfit for use	VC	3
2.5.3.2		Damper rings per bogie	No more than one ring missing, broken, damaged or unfit for use	VC	5
2.5.4.1	All wagons	One spring cap per bogie	No cap exhibiting signs of contact or actually in contact with bogie frame	VC	3
2.5.4.2		Spring cap	Not more than one cap exhibiting signs of contact or actually in contact with bogie frame	VC	5
2.5.5	All wagons	Lifting T (safety catch)	Present and secured	VC	3
2.5.6		Suspension	No recent signs of bottoming	VC	5
3.1.1	All wagons	Brake rigging	No part hanging loose or damaged. Check also 1.6.1, 1.6.2 and 1.6.3	VC	4
3.1.2		Safety strap	Present, in proper condition	VC	4
3.1.3.1		Brake isolating cock	Operable	OP	3
3.1.3.2		Brake isolating cock	Position clear	VC, OP	3
3.1.4		Empty/loaded or G/P changeover device	Operable	OP	3
3.1.5		Brake release pull	Present and unbroken	VC	3

¹ VC = visual check; M = measurement; HT = hammer test; OP = operate; PM = pull or move the components

Code	Wagon	Component	Quality requirement	Control criteria ¹	Irregularity class
3.2.1	All wagons	Cast-iron brake block	Present, unbroken; thickness above the required minimum	VC, M	3
3.2.2		Composite brake block	Present, no radial crack from friction surface through to plate edge, no visible shelling of more than one quarter of the block length. Thickness above the required minimum. No detachment of friction material from the back plate in excess of 25 mm and no cracking in excess of 25 mm in the direction of the wheel circumference.	VC, M	3
3.2.3		Friction components	Not projecting laterally	VC	4
3.2.4.1	All wagons	Inspection groove on the brake discs	Inspection groove completely visible	VC	3
3.2.4.2		Brake disc fixing	Suitable brake disc fixing	VC	5
3.2.4.3		Brake disc	No cracks > 1/2 as per diagram	VC	3
3.2.4.4		Brake disc	No cracks in cross-section	VC	5
3.2.4.5		Cooling bars	Undamaged, no cracks	VC	3
3.2.4.6		Circular cooling fins	Undamaged, no cracks	VC	3
3.2.5		Brake linings	Present, not cracked	VC	3
3.2.6		Brake indicator	Suitable indication	VC	4
3.3.1.1	All wagons	Main brake pipe	Operable	VC	4
3.3.2.1	All wagons	Brake couplings	Present, intact	VC	3
3.3.2.2	All wagons	Brake couplings	Only one coupler plugged in, with the other secured in holder	VC	3
3.3.3	All wagons	Coupler holder	Present, operable	VC	3
3.3.4		Air brakes	Isolated brakes labelled accordingly	VC	3
3.3.5.1		Stopcock	Operable, airtight, not forced, handle present	VC, OP	5
3.3.5.2		Stopcock, stopping device	Present and obviously in good condition	VC	4
3.3.6.1		DET	Operational, switched on	VC	3
3.3.6.2		DET	Airtight	VC	3
3.3.6.3		DET	Detector's connection hose airtight	VC	4
3.4.1	All wagons	Spark arrestor plate	Present and not holed by rust	VC	4
3.4.2		Spark arrestor plate	Properly attached	VC	4

¹ VC = visual check; M = measurement; HT = hammer test; OP = operate; PM = pull or move the components

Code	Wagon	Component	Quality requirement	Control criteria ¹	Irregularity class
3.4.3	For the transport of dangerous goods in non-bogie wagons where RID regulations call for use of spark arrestor plates	Spark arrestor plate	Wagon must bear conventional symbol shown in Appendix 11 to the GCU, point 2.10 (spark arrestor plate authorised).	VC	5
3.5.1	All wagons fitted	Hand brake	Visibly operable	VC	3
3.6.1	All wagons fitted	Automatic brake test	Operable	VC	3
4.1.1	All wagons	Underframe	No visible distortion; not buckled	VC	5
4.1.2		Solebar, headstock and intermediate crossbar	Not broken, cracks < 1/2 width of flange, longitudinal cracks < 100 mm near the suspension brackets, elsewhere < 150 mm; no cracking at visible welds	VC, M	4
4.2.1	All wagons	Axle guard	No distortion constituting a safety hazard	VC	5
4.2.2		Axle guard	Not broken	VC	5
4.2.3.1		Axle guard	Fastening effective, not loose	VC	5
4.2.3.2		Axle guard	No loose rivets or bolts on fastening	VC	3
4.2.4.1		Axle guard	No cracks extending more than ¼ of horizontal section	VC, M	4
4.2.4.2		Axle guard	No cracks	VC	3
4.2.4.2		Axle guard	No cracks	VC	3
4.2.4.3		Axle guard	No cracks close to or running towards a fastening point	VC	5
4.3.1	All wagons	Axle guard tie bar	Present, neither broken nor visibly distorted	VC	4
4.4.1.1	All wagons	Check plate (bogie wagon)	No check plate missing per axle	VC	3
4.4.1.2		Check plate (bogie wagon)	Not more than one check plate missing per axle	VC	4
4.4.1.3		Check plate (non-bogie wagon)	Present	VC	5
4.4.2	All wagons with Y bogies	Hard manganese wear plates	Secured, present	VC	4
4.5.1	All wagons fitted	Suspension bracket	In good condition, correctly secured	VC	5

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Code	Wagon	Component	Quality requirement	Control criteria ¹	Irregularity class
4.6.1.1	All wagons	Bogie/underframe connection	Intact, not displaced; connection and fastening components present and effective	VC	5
4.6.1.2	All wagons	Bogie/underframe connection (bogie pivot kingpin)	Complete and effective	VC	4
4.6.2.1		Earthing strap	All present, undamaged, tight	VC	3
4.6.2.2		Earthing strap	At least 1 present and effective	VC	3
4.7.1	All wagons	Bogie frame	Not cracked or visibly distorted	VC	4
4.7.2		Bogie frame	No broken components	VC	5
4.7.3.1	All wagons with Y bogies	Bogie/frame connection	No missing or broken screws on inner longitudinal beam fastenings	VC	3
4.7.3.2	All wagons with Y bogies	Bogie/frame connection	No more than one missing or broken screw on inner longitudinal beam fastenings on the same axle	VC	5
4.8.1.1	All wagons	Side bearer	Intact (no missing parts)	VC	4
4.8.1.2		Side bearer	Intact (missing part)	VC	5
4.8.2		Side bearer spring	Not broken	VC	4
4.8.3		Side bearer fastening	Complete and effective	VC, PM	3
4.9.1	All wagons	Friction surfaces of damper system	Not lubricated	VC	4
4.10.1.1	All wagons with central articulated joint connections	Upper side bearer	Effective	VC	3
4.10.1.2		Upper side bearer	Complete	VC	4
4.10.2.1		Friction plate	Intact (no missing parts)	VC	3
4.10.2.2		Friction plate	Intact (missing part)	VC	4
5.1.1	All wagons	Buffer types at each end of the wagon	Obviously of the same type	VC	4
5.1.2		Buffer height	Within tolerance range	VC, M	5
5.2.1	All wagons	Buffer head	Present, not broken, distorted but functional; rectangular buffer heads not twisted	VC	5
5.2.2.1		Buffer head	Fewer than 1/3 of bolts or rivets loose	VC	4
5.2.2.2		Buffer head	No loose bolts or rivets	VC	3

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Code	Wagon	Component	Quality requirement	Control criteria ¹	Irregularity class
5.2.3.1		Buffer head contact surface	Lubricated if the two buffer heads which are in contact are made of metal	VC	5
5.2.3.2		Buffer head contact surface	No grooving	VC, M	5
5.2.4.1		Buffer head insert or plastic plate	Present, not broken, not cracked	VC	5
5.2.4.2		Buffer head insert or plastic plate	No shelling/melding	VC, M	4
5.2.4.3		Buffer head insert or plastic plate	Fastening complete	VC	5
5.3.1	All wagons	Plunger	Present, not broken	VC	5
5.3.2.		Plunger	Not cracked at the transition to buffer head	VC	5
5.3.3.1		Plunger	No longitudinal cracking; still capable of guiding buffer	VC	5
5.3.3.2		Plunger	Operation not jeopardised, no grooving	VC, M	5
5.3.4.1		Plunger stopping or securing device	Present, effective	VC	5
5.3.4.2		Plunger stopping or securing device	No displacement visible	VC	4
5.4.1	All wagons	Buffer guide	Present, not broken	VC	5
5.4.2		Buffer guide	Not cracked at transition to buffer base	VC	5
5.4.3.1		Buffer guide	No longitudinal cracking; still capable of guiding plunger	VC	5
5.4.3.2		Buffer guide	Operation not jeopardised, no grooving	VC, M	5
5.4.4.1		Buffer guide securing bolts	Tight (less than 2 bolts loose)	VC, PM	5
5.4.4.2		Buffer guide securing bolts	All bolts present	VC, PM	3
5.4.4.3		Buffer guide securing bolts	Tight (no bolts loose)	VC, PM	3
5.5.1	All wagons	Buffer spring	Functional, with compliant dimensions, unbroken. No buffers slack enough to be depressed by hand by more than 15 mm or neither of the two buffers able to be depressed.	VC, M	4
5.5.2	Marked wagons	Anti-crash components	Not triggered	VC	5
5.5.3	Marked wagons	Marking for anti-crash components	Present in its entirety, visible	VC	4
5.6.1.1	All wagons	Screw coupler	Present in its entirety and undamaged	VC	3
5.6.1.2	All wagons	Screw coupler	Fit for use and lubricated	VC	3
5.6.2		Hook for hanging coupler on when not in use	Present, fit for use, undamaged	VC	3
5.6.3		Looped coupling link	Hanging from hook	VC	3

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Code	Wagon	Component	Quality requirement	Control criteria ¹	Irregularity class
5.7.1.1	All wagons	Draw hook	Serviceable, not broken or cracked	VC	3
5.7.1.2		Draw hook	Not twisted	VC	3
5.8.1	All wagons	Other draw gear parts	Present, not broken or cracked, no abnormal projection	VC	4
5.8.2		Coupling	Train correctly coupled	VC	4
5.9.1	All wagons	Long-stroke damper	Effective, sliding element in central position, undamaged	VC	4
5.9.2		Marking of danger points	Present	VC	4
5.10.1	All fitted wagons	Automatic coupling	Operable	VC	4
5.10.2		Coupler head	Undamaged	VC	3
5.10.3		Uncoupling device	Undamaged, operational	VC, OP	3
5.10.4		Support, draw bar	Undamaged	VC	3
6.1.1.1		Wagon number	Present, legible, complete	VC	4
6.1.1.2	Wagons with exchange codes beginning with a digit from 0 to 3	“RIV” sign, “TEN” + “GE” or acceptance marking (“TEN” + “G1”, country acronym in approval plate)	Present, legible	VC	4
6.1.1.3	Wagons with exchange codes 41, 43, 45, 81, 83 or 85	Agreement plate or an acceptance marking (“TEN- CW”, country code in approval plate)	Present, legible, complete	VC	4
6.1.1.4	All wagons	Tare	Present, legible, complete	VC	4
6.1.1.5		Holding force of parking brake	Present, legible, complete	VC	4
6.1.1.6		Load limits	Present, legible, complete	VC	4
6.1.1.7	Tank wagons	Capacity	Present, legible, complete	VC	4
6.1.1.8	All wagons	VKM or full address of the keeper	Present, legible, complete	VC	4
6.1.1.9	All wagons	Length-over-buffers	Present, legible, complete	VC	4
6.1.1.10	Wagons with ladders	High-voltage warning sign	Present, visible	VC	4
6.1.1.11	Container wagon	Specific marking	Present, visible	VC	4
6.1.2.1	All wagons	Inscription on the maintenance plate	Present, complete, visible	VC	4
6.1.2.2		Overhaul period (when appropriate+ “3 M” if marked)	Not expired, correctly labelled in accordance with Annex 8	VC	3
6.1.2.3		Overhaul period ≤ 6 months + “3 M”	Not expired, correctly labelled in accordance with Annex 8	VC	4
6.1.2.4		Overhaul period > 6 months + “3 M”	Not expired, correctly labelled in accordance with Annex 8	VC	4

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Code	Wagon	Component	Quality requirement	Control criteria ¹	Irregularity class
6.1.3.1	All relevant wagons	Body framework	No damage	VC	3
6.1.3.2		Body framework	No damage which might compromise safety	VC, M	5
6.1.4.1	All relevant wagons	Walls	Secure, in good condition	VC	3
6.1.4.2		Walls	No damage which might cause goods to become damp or be lost	VC	4
6.1.5.1	All relevant wagons	Floor	Secure, watertight	VC	3
6.1.5.2		Floor	Secure, watertight, no risk of loss of load	VC	4
6.1.6.1	All relevant wagons	Doors and sliding walls	Fully closed and locked	VC	5
6.1.6.2		Doors and sliding walls	Present, not derailed, gauge not fouled	VC, M	5
6.1.6.3		Doors and sliding walls	Guiding and locking elements in good condition	VC	3
6.1.6.4		Doors and sliding walls	Guiding and locking elements in good condition and not compromising safety or causing a loss of load	VC	5
6.1.6.5	E, Ea	Doors	Undamaged	VC	3
6.1.6.6		Doors	No damage compromising operating safety	VC	5
6.1.7.1	All wagons	Ladders, gangways, guard rails	Operational	VC	4
6.1.7.2		Steps	Present (where clearly necessary)	VC	4
6.1.7.3		Steps	No damage representing a safety hazard for staff, not torn off, deformation within tolerated limits	VC, M	4
6.1.7.4		Handles	Present, no damage representing a safety hazard for staff, not torn off, deformation within tolerated limits	VC, M	4
6.1.7.5		Inscription plates, folding plates and label holders	Secured	VC	4
6.1.7.6		Inscription plates, folding plates and label holders	Present	VC	3
6.1.7.7		Loose wagon components	Present as marked on wagon	VC	3
6.1.7.8		Loose wagon components	Secured	VC	4
6.1.7.9		Signal brackets, rope eyes	Present, operable	VC	3
6.1.8.1	Covered wagons	Interior fittings	Undamaged, operable	VC	3
6.1.8.2	Covered wagons	Interior fittings	Undamaged, operable. If damaged unable to be repaired	VC	5
6.2.1.1	Covered wagons	Ventilation flaps	Present, undamaged	VC	3
6.2.1.2		Ventilation flaps	No damage compromising safety/load integrity or causing the gauge to be fouled	VC, M	5

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Code	Wagon	Component	Quality requirement	Control criteria ¹	Irregularity class
6.2.2.1		Control gear, shutter retaining bracket	Securely hooked, not distorted, not loose	VC	3
6.2.2.2		Control gear, shutter retaining bracket	Not fouling the gauge	VC, M	5
6.2.3		Roof Weatherboard	Undamaged, watertight Present, undamaged, not loose	VC VC	4 4
6.2.4.1		Convertible roof	Secured and closed	VC	5
6.2.4.2		Convertible roof	Not derailed	VC	5
6.2.4.3		Visible operating parts	Present, undamaged, effective	VC	4
6.3.1.1	Open wagons	Side walls and end flaps	Undamaged, closed, watertight	VC	3
6.3.1.2		Side walls and end flaps	Undamaged, watertight and closed. If damaged: no risk of loss of load	VC	4
6.3.1.3		Side walls and end flaps	Undamaged, watertight and closed. If damaged: no risk of fouling gauge	VC	5
6.3.2.1	All wagons	Closing and operating gear of end flaps (pin, camshaft, retaining hook and shaft support)	Present, no fractures or cracks, effective	VC	3
6.3.2.2		Closing and operating gear of end flaps (pin, camshaft, retaining hook and shaft support)	Present, no fractures or cracks, effective If damaged/missing: not compromising safety	VC	5
6.3.3.1		Cantrail	Not damaged or distorted	VC	3
6.3.3.2		Cantrail	Not damaged or distorted. If broken or distorted: no risk of fouling gauge	VC	5
6.4.1.1	Flat wagons	Side and end drop walls, folded down	Secured	VC	5
6.4.1.2		Side and end drop walls, folded down (not permitted under Table 3 of the Loading Guidelines)	Raised	VC	5
6.4.1.3		Side and end drop walls	Not distorted	VC, M	3
6.4.1.4		Side and end drop walls	Not damaged or distorted. If damaged or distorted: no risk of loss of load	VC	4
6.4.1.5		Side and end drop walls	Not distorted. If distorted: no risk of fouling gauge	VC	5
6.4.2.1		Hinges, pins, securing bolts	Present, undamaged, operative	VC	3
6.4.2.2		Hinges, pins, securing bolts	Present, undamaged, operative. If missing or damaged: without compromising safety or risking any loss of load	VC	4
6.4.3.1		Stanchions (pivoting, retractable, detachable), stanchion sockets, holders and supports	Provided as necessary	VC	5

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Code	Wagon	Component	Quality requirement	Control criteria ¹	Irregularity class
6.4.3.2		Stanchion (pivoting, retractable, detachable), stanchion sockets, holders and supports	Not fouling the gauge	VC	5
6.4.3.3		Stanchion (pivoting, retractable, detachable), stanchion sockets, holders and supports	Intact	VC	4
6.4.3.4		Stanchion chain	Hooked up	VC	4
6.4.3.5		Stanchion fasteners	Effective	VC	4
6.4.4.1		Bolsters	Intact	VC	3
6.4.4.2		Bolsters	Secured by stanchions or load	VC	4
6.5.1.1	Tank wagons	Tank cradle	No crack extending > 1/4 across the cross-section	VC, M	4
6.5.1.2		Tank cradle	No cracks in weld seams	VC	4
6.5.1.3		Tank cradle	All bolts or rivets securing the tank body to cradle present	VC	4
6.5.1.4		Tank cradle	90% of bolts or rivets securing the tank body to cradle present	VC	4
6.5.2.1		Tank body	Intact, no leaks or loss of load	VC	5
6.5.2.2		Tank body	No sharp-edged distortion (without loss of load)	VC	4
6.5.2.3		Tank full, without "L" marking, RID load	Tank test deadline not expired	VC	4
6.5.2.4		Tank full, without "L" marking, RID load	Tank test deadline not expired	VC	5
6.5.2.5		Tank empty, not cleaned, without "L" marking, RID load	Entry of RID carriage in the transport document	VC	4
6.5.2.8		Tank empty, not cleaned, without "L" marking, RID load	Entry of RID carriage in the transport document	VC	5
6.5.2.9		Tank full, with "L" marking, RID load	Tank test deadline not expired	VC	4
6.5.2.10		Tank full, with "L" marking, RID load	Tank test deadline not expired	VC	5
6.5.2.11		Tank empty, not cleaned, with "L" marking, RID load	Entry of RID carriage in the transport document	VC	4
6.5.2.12		Tank empty, not cleaned, with "L" marking, RID load	Entry of RID carriage in the transport document	VC	5
6.5.3.1		Tank equipment	Tank cladding, sunroof and insulation undamaged	VC	4
6.5.3.2		Tank equipment	Tank cladding, sunroof and insulation securely fastened	VC	5
6.5.5.1	Tank wagons	Reinforcement, filling and emptying equipment (underside)	No leakage of load	VC	5
6.5.5.3		Valves or spouts (underside)	Undamaged	VC	4

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Code	Wagon	Component	Quality requirement	Control criteria ¹	Irregularity class
6.5.5.4		Lower screw cap (except outside gas pipes), RID load	Present and in use, tightly closed	VC	4
6.5.5.5		Lower screw cap (except outside gas pipes), non-RID load	Present and in use, tightly closed	VC	3
6.5.5.6		Lower blind flange	Present	VC	4
6.5.5.7		Lower blind flange, RID load	No securing bolt missing or loose	VC, PM	4
6.5.5.8		Lower blind flange, non-RID load	No securing bolt missing or loose	VC, PM	3
6.5.5.9		Lower blind flange	Not more than one securing bolt missing or loose	VC, PM	4
6.5.5.10		Bottom valve indicator device, loaded wagon, and empty wagons that have not been cleaned (RID load)	In closed position	VC	5
6.5.5.11		Bottom valve indicator device, empty wagon (non- RID load)	In closed position	VC	3
6.5.5.12		Emergency control bolt for the bottom valve	Not screwed in the valve body	VC	5
6.5.5.13		Lower filling and emptying equipment	In closed position	VC	5
6.5.5.14		Lower filling and emptying equipment	Visible locking devices effective	VC	4
6.5.6.1	Tank wagons	Reinforcement, filling and emptying equipment (topside)	No loss of load or gas leakage (except ventilation device)	VC	5
6.5.6.2		Dome cover	Present, closed, visibly locked	VC	5
6.5.6.3		Other upper closing devices	Properly locked	VC	4
6.6.1.1	e.g. Rils, Tams	Sheeting	Closed, locked	VC	5
6.6.1.2		torn, holed sheeting ≤ 30 mm	Undamaged	VC, M	3
6.6.1.3		torn, holed sheeting > 30 mm	Undamaged	VC, M	5
6.6.1.4		Eyelet	Present, undamaged	VC	4
6.6.1.5	All fitted wagons	Tarpaulin rope	invisible from the outside	VC	4
6.6.2.1	e.g. S(a)hi	Hood	Closed, locked	VC	5
6.6.2.2	e.g. S(a)hi	Hood	Not derailed	VC, PM	5
6.6.3.1	e.g. Saad	End gangway	Undamaged	VC	4
6.6.3.2	e.g. Saad	End gangway	Locked at both ends	VC	5

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Code	Wagon	Component	Quality requirement	Control criteria ¹	Irregularity class
6.6.3.3		Fastening devices	Effective	VC	4
6.6.3.4		Wheel scotches	Undamaged	VC	3
6.6.4.1	ACTS wagons	Swivel frame	Undamaged	VC	4
6.6.4.2		Locking device to prevent frame from swiveling	Effective, locked	VC	5
6.6.4.3		Pneumatic monitoring system on the swivel lock	In service (unless labelled otherwise)	VC	4
6.6.4.4		Pneumatic monitoring system on the swivel lock has triggered	Swivel lock effective and locked	VC	3
6.6.4.5		Device to prevent container lifting	Effective and secured	VC	5
6.6.4.6		Device to prevent container displacement	Effective	VC	5
6.6.5.1	Car-carrying wagons	Lifting equipment, crossover gangways	Undamaged	VC	4
6.6.5.2		Wheel scotch, wheel guides, crank handle	Undamaged	VC	3
6.6.5.3		End boards, crossing gangways	Raised and secured – if necessary	VC	4
6.6.5.4		Upper loading deck	Indicating device folded away	VC	4
6.6.5.5		Upper loading deck	Secured	VC	5
6.6.5.6		Upper loading deck	Lying on supporting brackets	VC	5
6.6.5.7	Loaded car-carrying wagons	Upper loading deck	No fouling of the gauge	VC	5
6.6.5.8		Gangways above central axles	Fully maneuverable, distance between wheel and gangway > 100 mm	VC, M	5
6.6.5.9	Empty car-carrying wagons	Crossover plates on central axles	Neither distorted, broken, nor cracked. No missing parts	VC	4
6.6.5.10	Loaded car-carrying wagons	Crossover plates on central axles	Neither distorted, broken, nor cracked. No missing parts	VC	5

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Code	Wagon	Component	Quality requirement	Control criteria ¹	Irregularity class
6.6.6.1	Empty self-discharging wagons	Axial flap	Closed and locked	VC	3
6.6.6.2	Loaded self-discharging wagons	Axial flap	Closed and locked	VC	4
6.6.6.3	Empty self-discharging wagons	Lateral flap	Closed and locked	VC	4
6.6.6.4	Loaded self-discharging wagons	Lateral flap	Closed and locked	VC	4
6.6.7.1	E.g. Snps, Roos, Ealos	Securing equipment not in use	Suitably and adequately fixed and secured	VC, OP	4
6.6.8.1	All fitted wagons	Hydraulic equipment	Tight, no oil spillage	VC	4
6.7.1.1	Carrier wagons	Seating device not in use	Locked, intact	VC	3
6.7.1.2		Seating device in use	Locked, intact	VC	5
6.7.1.3		Spigot not in use	Intact	VC	3
6.7.1.4		Spigot in use	Triggered, intact	VC	5
6.7.2		Pivot of trailer coupling in the trestle	Locked	VC	5
6.7.3		Seating device not used	Locked	VC	3
6.7.4		Seating device wheel	Locked, with no risk of fouling the gauge	VC	5
6.7.5.1		Moving parts	Locked	VC	3
6.7.5.2		Moving parts	Fixed, with no risk of fouling the gauge	VC	5
6.7.6.1		Anti-crash system of seating device in use	Non-deformed	VC	5
6.7.6.2		Anti-crash system of seating device not in use	Non-deformed	VC	4
6.8.1	All fitted wagons	General equipment for fastening components	Complete and fixed	VC, PM	3
6.8.2		Box wagon, aerial	Undamaged	VC	3
6.8.3		Cable/plug	Undamaged	VC	3

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Code	Component	Quality requirement	Control criteria ¹	Irregularity class
7.1.1	Load	Not displaced	VC	5
7.1.2	Distribution of load (3.3)	Body horizontal, showing no signs of poor distribution	VC	5
7.1.3	Packages, bales, bundles, stacks (1.5)	Correctly stowed and tied together	VC	4
7.1.4	Narrow cylindrical objects (1.5)	Adequately tied	VC	4
7.1.5.1	Loading gauge (4.1)	Not fouled	VC, M	5
7.1.5.2	Loading gauge	Permissible fouling of gauge marked	VC	5
7.1.6	Load projecting beyond headstock (4.2)	No encroachment on reserved spaces	VC, M	5
7.1.7.1	Load limits (3.2), visual observation	Body showing no sign of overloading, buffers level, sufficient clearance between spring buckle and solebar	VC, M	5
7.1.7.2	Load limits (3.2), otherwise recorded	No discrepancy between consignment data and load limits. Measurement and diagnostics data are within tolerances	VC, M	5
7.1.8	Buffer wagon (4.3)	Sufficient clearances between loads or between buffer wagon and load	VC, M	5
7.1.9	Sheeting, net (6.1, 6.2)	Conditions of use adhered to	VC	4
7.1.10	Loss of load	Conditions of use adhered to. If damaged: without risk of loss of load	VC	5
7.2.1	Load projecting beyond walls or sides of wagon (5.4.1)	Adequately retained	VC	5
7.2.2	Leaning load (2.3)	Not causing damage to structural elements of wagon, or obstructing their functioning	VC	4
7.2.3.1	Load secured by stanchions (2.5 and 5.4.1)	Adequately retained	VC, M	5
7.2.3.2	Transverse lashing ropes between stanchions (2.5)	Present where required	VC	5
7.2.3.3	Load pressing against stanchions (2.5)	No distortion of stanchions	VC	5
7.2.3.4	Heavy load or one which may damage the side stanchions should it move lengthways (2.5)	Securely wedged, not touching stanchions	VC	4
7.2.4	Scotches fastened with nails (5.4.3)	Suitable, effective and correctly fixed to the floor	VC	5
7.2.5.1	Direct or indirect fastenings (5.4.4, 5.5.4)	Made from suitable and approved materials	VC	5
7.2.5.2		Sufficient and correctly fastened	VC	5
7.2.5.3		Not slack	VC	4

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Code	Component	Quality requirement	Control criteria ¹	Irregularity class
7.2.6.1	Bolsters, timbers, stretchers stowing material (5.5.5, 5.6.2, 5.8.1)	Adapted to load and visibly well positioned and secure	VC	5
7.2.6.2	Loading tackle and stowing material	Tidied away	VC	3
7.2.7	Potentially hazardous residues	Residues removed	VC	5
7.3.1	Load stability (5.1)	Ensured	VC	5
7.3.2	Goods which may be lifted by air flow, e.g., light scrap and light boards (5.2.1, 5.3.2)	Sufficiently well covered	VC	5
7.3.3.1	Goods which may fall off (vibrations, impacts) (5.2.2)	Sufficient clearance between the goods and the top of the wagon sides	VC	5
7.3.3.2	Height of dome-shaped load	Compliant with dimensions	VC	5
7.3.4	Stacked goods (5.8)	Correctly stacked, adequately bound and secured, not too high, correctly dovetailed, evenly distributed, clearances adhered to	VC	5
7.3.5.1	Load with small bearing surface (2.2)	Base provided in order to distribute weight over a greater area without damaging floor	VC	3
7.3.5.2	Concentrated loads	Suitable scotching materials of the correct dimensions	VC, M	5
7.3.6	Load liable to tip over (5.7)	Secured to avoid overturning	VC	5
7.3.7	Inclined load (5.7)	Adequately propped up	VC	5
7.3.8	Load liable to roll (5.6.1, 5.6.2)	Secured to prevent rolling	VC	5
7.3.9.1	Load able to slide lengthways (5.5.1)	Resting on suitable devices (skid, longitudinal slide arresters, lateral guide-pieces, etc.)	VC	4
7.3.9.2	Lateral guidance	In place, sufficient and with no risk of fouling the gauge or exceeding the load limit	VC, M	5
7.3.9.3	Necessary clearances	Provided	VC, M	4
7.3.9.4	Necessary room to slide	Limited in accordance with requirements	VC, M	4
7.4.1	Vehicle or machinery on wheels or caterpillar tracks (5.6.3)	Properly scotched and fastened	VC	5
7.4.2.1	Moving parts on load	Secured	VC	3
7.4.2.2	Moving parts on load	Secured. If not secured, no risk of the gauge being fouled	VC	5
7.4.3	Load supported on several wagons (5.9)	Loaded and secured in accordance with requirements	VC	5

¹ VC = visual check; M = measurement; HT = hammer test; OP = operate; PM = pull or move the components

Code	Component	Quality requirement	Control criteria ¹	Irregularity class
7.5.1	Locking device for dollies	Auxiliary equipment, present and effective	VC	4
7.5.2.1	ILU end doors not closed	Closed (unless load unit doors back-to-back)	VC	5
7.5.2.2	ILU end doors not properly closed	Door completely closed (unless load unit doors back-to-back)	VC	4
7.5.3	Inferior wedge parts	Intact	VC	5
7.5.4	Side wall, damaged cover	Intact, locked	VC	5
7.5.5.1	Cracked sheet, holed ≤ 30 mm	Intact	VC, M	3
7.5.5.2	Cracked sheet, holed > 30 mm	Intact	VC, M	5
7.5.5.3	Load	No damage from humidity to the load or loss of load	VC	4
7.5.6	Lock for sheets, side wall	Effective	VC	5
7.5.7	Frame/load-bearing parts	Not cracked or broken	VC	5
7.6.1.1	Tank cradle	No crack > crack > 1/4 of the section	VC, M	4
7.6.1.2	Tank cradle	No crack in the weld seams	VC	4
7.6.2.1	Tank body	Tight: no leak or loss of load	VC	5
7.6.2.2	Tank body	No distortion with sharp edges and risk of loss of load	VC	4
7.6.3.1	Tank equipment	Tank cladding, sunroof, insulation not damaged	VC	4
7.6.3.2	Tank equipment	Tank cladding, sunroof, insulation not loose	VC	5
7.6.4.1	Reinforcement, filling and emptying equipment, underneath	No loss of load	VC	5
7.6.4.2	Valves or spouts, underneath	Not damaged	VC	4
7.6.4.3	Screw cap, underneath, RID load	Tightly sealed	VC	4
7.6.4.4	Screw cap, underneath, non-RID load	Tightly sealed	VC	3
7.6.4.5	Blind flange, underneath	Present	VC	4
7.6.4.6	Blind flange, underneath, RID load	No securing bolt missing or loose	VC, PM	4
7.6.4.7	Blind flange, underneath, non-RID load	No securing bolt missing or loose	VC, PM	3
7.6.4.8	Blind flange, underneath, non-RID load	Not more than one securing bolt missing or loose	VC, PM	4

¹ VC = visual check; M = measurement; HT = hammer test; OP = operate; PM = pull or move the components

Code	Component	Quality requirement	Control criteria ¹	Irregularity class
7.6.4.9	Bottom valve indicator device, LU, and empty wagons that have not been cleaned (RID load)	In “closed” position	CV	5
7.6.4.10	Bottom valve indicator device, LU, empty (non-RID load)	In “closed” position	CV	3
7.6.4.11	Bottom valve emergency control device	Not screwed in	CV	5
7.6.4.12	Filling and emptying equipment, underneath	“Closed” body	CV	5
7.6.4.13	Filling and emptying equipment, underneath	Efficient visible locking devices	CV	4
7.6.5.1	Reinforcement, filling and emptying equipment, above	No loss of load or of gas (does not concern ventilation devices)	CV	5
7.6.5.2	Dome cover	Present, closed, visibly locked	CV	5
7.6.5.3	Other upper reinforcements	Properly locked	CV	4
7.7.1	Load unit on carrier wagon	Within load requirements for wagon	VC	5
7.7.2	Load unit on carrier wagon	All corner castings engaged on their respective spigots	VC	5
7.7.3	- reserved -			
7.7.4	Semi-trailer	Air suspension emptied	VC	5
7.7.5	Semi-trailer	Raiseable underrun bumpers in correct position according to compatibility code of the recess wagon and with no contact with the carrier wagon	VC	3
7.7.6	Semi-trailer	On semi-trailers with P coding: no contact between semi-trailer and wagon other than through wheels and trestle	VC	4
7.7.7	Semi-trailer	On semi-trailers with N coding: no contact between semi-trailer and wagon other than through wheels, skids and longitudinal members in the intended support areas	VC	4
7.7.8	Scotching of semi-trailer	Correct scotching	VC	4
7.7.9	Loading into load unit	No visible signs of distortion	VC	5
7.8.1	Markings, coding for combined traffic	At least one present and legible	VC	5
7.8.2	Wagon coding indicating permissible load units	Marking present on wagon	VC	5
7.8.3	Load unit (ILU) with upper corner castings	CSC safety plate present	VC	4
7.8.4	“High voltage” warning sign on ILU with ladder access	Present	VC	4

¹ VC = visual check; M = measurement; HT = hammer test; OP = operate; PM = pull or move the components

Code	Component	Quality requirement	Control criteria ¹	Irregularity class
8.1.1	All wagons	No trace following derailment	VC	5
8.1.2	All wagons	No trace following abnormal shunting impact	VC	5
8.2.1	All wagons	No trace following flooding or damage due to poor weather	VC	5
8.2.2	All wagons	No trace of damage due to current start-up	VC	5
8.2.3	All wagons	No trace left by fire	VC	5

¹ VC = visual check; M = measurement; HT = hammer test; OP = operate; PM = pull or move the components

APPENDIX 9, ANNEX 6

- reserved -

-

APPENDIX 9, ANNEX 7

- reserved -

APPENDIX 9, ANNEX 8

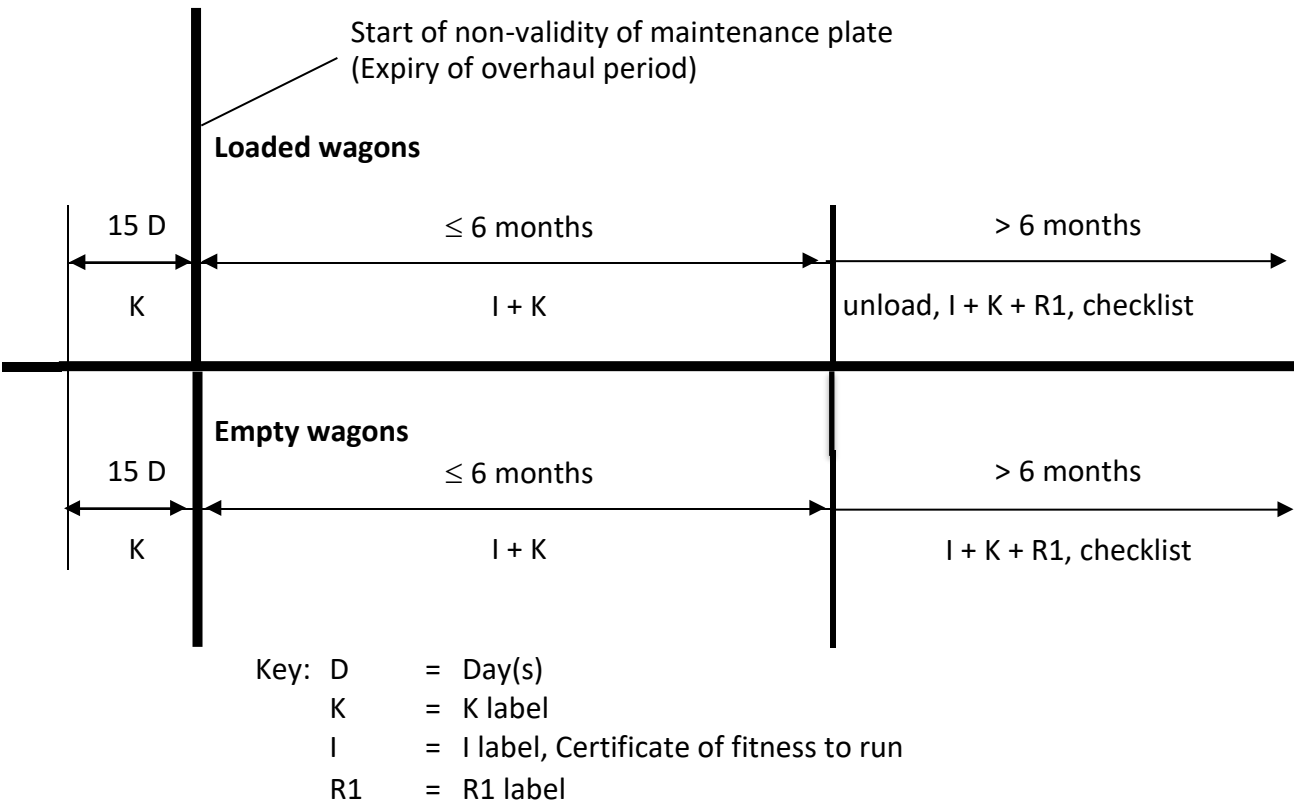
Handling of wagons

1. With an expired maintenance plate (or expired overhaul period)

Empty and loaded wagons with an expired maintenance plate (overhaul period exceeded) must be accepted.

Since wagons whose overhaul period is expired are no longer formally authorised to run, special measures must be taken at the time of expiry of the overhaul period to record and certify their fitness to run.

- 1.1
- Until the expiry of the overhaul period, empty wagons and loaded wagons shall be treated in the same way. After expiry of this period, extended as appropriate by 3 months if the vehicle carries the “+3M” marking, a distinction shall be made between empty and loaded wagons. The details are given in the following diagram:



- 1.2
- The issuing of an I label (certificate of fitness to run) is always based on an examination of fitness to run. For wagons whose overhaul period is exceeded up to six months, this examination shall consist of a Technical Transfer Inspection as defined in section 2 (Appendix 9 to the GCU). If no damage or irregularity preventing the continued conveyance of the wagon without a speed limit is noted, the wagon should be labelled with K and I labels. These wagons, which are fit to run without restriction, shall be handled like damaged vehicles carrying labels and can therefore be included in or remain part of any scheduled train service.

Note concerning the procedure:

The initial examination by the qualified staff is crucial. This shall be carried out according to when the overall period expired (see diagram) and remains valid until the wagon arrives at the destination station or the workshop where the overhaul is to take place. In this case, qualified staff shall act in accordance with their own practical experience.

- 1.3 The wagons shall be removed from the train after reporting of damage or irregularities which have led to a speed restriction. Onward conveyance of these wagons is only authorised after repair or as exceptional consignments (EC).
- 1.4 Empty and loaded wagons with an overhaul period that has been exceeded by over 6 months and under 5 years must be removed; loaded wagons must also be unloaded. Onward conveyance is only authorised once the examination of fitness to run has been conducted in accordance with the specific checklist (**Annex 9**).
- 1.5 The costs incurred are to be invoiced to the keeper in accordance with the GCU, article 22.4, first bullet point. The formal damage report described in Appendix 4 to the GCU is to be attached to the invoice as evidence. The costs shall include the cost of conducting the examination of fitness to run, the filling out and affixing of the I label and the cost of operation. If the overhaul period is exceeded, the invoice shall include all the resulting costs.

2. With an exceeded max. load limit

Instructions on the procedure to follow for onward conveyance following identification of overloading and for taking the necessary corrective measures

In the event that the maximum load per wheel, wheelset or wagon has been identified as exceeded by means of technical measuring devices (train inspection devices) or on the evidence of visible signs on the wagon, or if other irregularities have been noted, the following procedure must be applied.

Once the wagon has been removed, the weight of the wagon, wheelset or wheel must be checked by means of scales should no data from the dynamic measurement systems in the infrastructure be available.

Wheelset overloading percentage:

On detection, a value “C” must be measured for the load, taking into account the accuracy of the means of measurement “p”. The overload percentage is calculated using the following formula:

$$\% \text{ overload} = 100 \times ((C(1-p^*)/\text{nominal load}) - 1)$$

* If the accuracy of the means of measurement is unknown, “p” = 0 is applied.

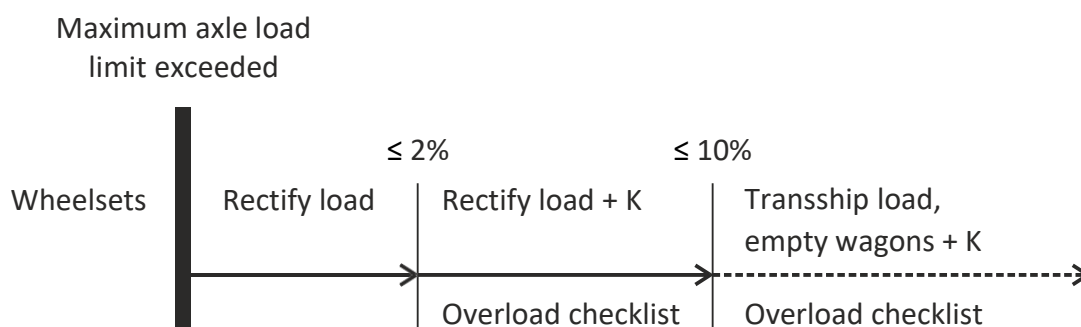
- If wheelset overload exceeds 2% and is less than or equal to 10%, the load must be rectified. A visual check shall be performed in accordance with the “overloading” checklist (**Annex 9**). The wagon shall be marked with the K label.
- If wheelset overload exceeds 10%, transshipment is required. Following a technical assessment, the wagon shall be marked with the K label in accordance with the “overloading” checklist (**Annex 9**) and conveyed empty to a workshop located nearby.

If the permissible wheelset load cannot be identified on the wheelset, the wagon must be conveyed to a workshop located nearby.

Wheelset markings

If wheelset overload is greater than 2%, the wheelset must be marked with a white cross on the axle.

Summary:



3. With an exceeded concentrated load

Instructions on the procedure to follow for onward conveyance following identification of exceeded concentrated load and for taking the necessary corrective measures

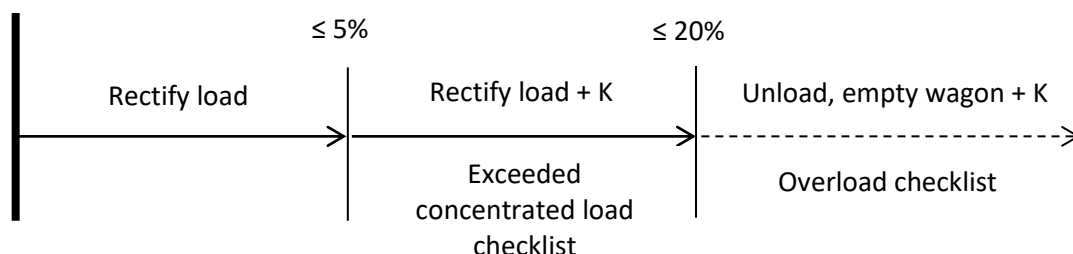
- Visual assessment of wagon with exceeded concentrated load
- Calculation of load weight by means of scales or from information on the consignment note
- Calculation of exceeded concentrated load percentage compared to the inscriptions on the wagon in accordance with number 3.4 of the UIC Loading Guidelines, Volume 1

Exceeded concentrated load and procedure:

- If less than or equal to 5%, the overload is simply rectified.
- If greater than 5% and less than or equal to 20%, the overload must be rectified. A visual check shall be performed in accordance with the “exceeded concentrated load” checklist (**Annex 9**). The wagon shall be marked with the K label.
- If wheelset overload exceeds 20%, transshipment is required. Following a technical assessment, the wagon shall be marked with the K label in accordance with the “overloading” checklist (**Annex 9**) and conveyed empty to a workshop located nearby.

Summary:

Exceeded concentrated load



4. With wheels displaying the criteria for thermal overload as per code 1.2.2

For wheels displaying indications of thermal overload as per code 1.2.2 and **NOT** being marked as being able to withstand high thermal stresses:

- measure the widening of the inner faces (E value) at the running surface of the rail at 3 points, at distances of 120°, and verify code 1.7.1
- inspect the tread for isolated cracks in the cross-section (see code 1.3.6.4)
- inspect the rim and web for cracks/breaks (see code 1.3.6.5)
- complete **Annex 12** (Traceability)

For wheels being marked as being able to withstand high thermal stresses:

- inspect the tread for isolated cracks in the cross-section (see code 1.3.6.4)
- inspect the rim and web for cracks/breaks (see code 1.3.6.5)

5. Equipped with a DET (derailment detector)

- Tracing a tripped detector:

When a tripped detector is detected, the wagon (all axles) must be examined in accordance with the checklist (**Annex 9**) in order to determine the cause. If it has proved impossible to identify the cause, reset the display unit of the detector by pressing on the red flap of the trip indicator.

- DET not airtight (air leakage):

Isolate the detector using the handle and replace it as soon as possible.

- Yellow lever handle in a vertical position: detector tripped
- Yellow lever handle in a horizontal position: detector not tripped

Resetting:

The DET only resets itself automatically once the main brake pipe is fully drained; only then can the main brake pipe be refilled.

The trip indicator (red flap) remains visible at all times and must be reset manually once the pressure in the main brake pipe is zero.

After inspection of the wagon, the trip indicator may be reset.

APPENDIX 9, ANNEX 9

Checklists

These checklists must be followed in their entirety in addition to the criteria in Annex 1. Where applicable, reasons for unfitness to run must be indicated. The measured values must be documented for the purpose of traceability (Annex 12).

1. INSPECTION OF FITNESS TO RUN FOR WAGONS WITH AN EXPIRED MAINTENANCE PLATE

- **Reference: Annex 8**, point 1.4: empty wagon with a maintenance plate (overhaul period) that has been expired for at least 6 months and for a maximum of 5 years.
- **The measured values of the wheelsets must be documented for the purpose of traceability (Annex 12).**

1	2	3	4	5
Number	Question	Answer	Go to number	Comments
Provisions common to vehicles with individual axles and bogies				
1	Is the wagon marked with an interoperability sign conform to point 6.1.1.2 and 6.1.1.3 of Annex 1 ?	Yes No	2 12.2	
2	Is the loading gauge of the participating RUs respected?	Yes No	3 2.1	
2.1	Have the participating RUs agreed for the wagon to be handed over?	Yes No	3 12.2	
3	Do the wheelsets have an identification mark?	Yes No	3.1 12.2	Ask the keeper and wait for his written confirmation.
3.1	Does the keeper confirm that the overhaul date has not been exceeded?	Yes No	4/4.1 12.2	If not possible, 12.2
4	Does the wheel tyre thickness conform to the criteria of point 1.1.1 of Annex 1 ?	Yes No	5 12.2	Measure
4.1	Or Does the groove marking the minimum thickness for one-piece wheels conform to the criteria of point 1.2.1 of Annex 1 ?	Yes No	5 12.2	

1	2	3	4	5
Number	Question	Answer	Go to number	Comments
5	Are there signs of damage due to an incident, derailment, violent shunting impacts or thermal overload (with the exception of wheelsets marked as being able to withstand high thermal stresses)?	Yes No	5.1 5.2	
5.1	Do the values S_d , S_h , qR and E lie within the permissible limits and is there no sign that the wheels are misaligned with the axle?	Yes No	6 12.2	Measure (for the E value measure at 3 points)
5.2	Do the values S_d , S_h , qR and E lie within the permissible limits and is there no sign that the wheels are misaligned with the axle?	Yes No	6 12.2	Measure (for the E value measure at 1 point)
6	Does the distance between active surfaces (S_R) satisfy the following criteria: – no more than 1426 mm? – at least 1410 mm for a wheel diameter > 840 mm? – at least 1415 mm for a wheel diameter ≤ 840 mm?	Yes No	7 12.2	
7	Is the wagon visibly fitted with a uniform type of suspension springs?	Yes No	8 12.2	
8	Does the buffer height lie within the permissible tolerances?	Yes No	9 12.2	Measure
9	Does the wagon have superstructures liable to rotate, be displaced or otherwise move during the journey?	Yes No	10 11	
10	Are there sufficient devices outwardly visible for securing moving superstructures and are they present and effective?	Yes No	11 12.2	
11	Is the wagon otherwise free of safety-critical damage or defects?	Yes No	12.1 12.2	
	Results of the examination of fitness to run	Measures		
12.1	The wagon may continue to run empty at the marked speed (with the brake isolated).	Fill out the Label I, indicate wagon as fit to run.		
12.2	The wagon may not be included in trains in its present condition.	Do not fill out the Label I, indicate wagon as unfit to run, giving reasons.		

2. INSPECTION OF FITNESS TO RUN FOR AN OVERLOADED WAGON (EXCEEDED LOAD LIMIT) OR EXCEEDED CONCENTRATED LOADS

- **Reference: Annex 8, point 2:** procedure for onward conveyance following identification of overloading and for taking the necessary corrective measures.
Annex 8, point 3: procedure for onward conveyance following identification of exceeded concentrated loads and for taking the necessary corrective measures.
- **The measured values of the wheelsets must be documented for the purpose of traceability (Annex 12).**

Wagon checklist for overloading and exceeded concentrated loads

1	2	3	4	5
Number	Question	Answer	Go to number	Comments
Inspection of wagon overloading or exceeded concentrated loads				
Inspection of wagon overloading				
1.1	Wheelset: > 2% and ≤ 10% overload	Yes No	2.1 1.2	
Inspection of wagon overloading or exceeded concentrated loads				
1.2	Wheelset: > 10% overload or > 20% exceeded concentrated loads	Yes No	2.2 1.3	
Exceeded concentrated loads				
1.3	Has the registered concentrated load been exceeded by more than 5% or less than/equal to 20%?	Yes No	5 8	
Axles/running gear				
2.1	Axle free of visible damage that would necessitate detachment of the wagon?	Yes No	2.3 9.2	Visual check
2.2	Axle free of visible damage that would necessitate detachment of the wagon and E value within permissible tolerance range?	Yes No	2.3 9.2	Visual check; for the E value, measure at 3 points
2.3	Bogie frame free of damage, deformation and cracks that would necessitate detachment of the wagon?	Yes No	3 9.2	Visual check
Springs				
3	Suspension springs and set of suspension free of damage, deformation and cracks that would necessitate detachment of the wagon?	Yes No	4 9.2	Visual check
Brake				
4	Brake rigging free of damage, deformation and cracks that would necessitate detachment of the wagon?	Yes No	5 9.2	Visual check

1	2	3	4	5
Number	Question	Answer	Go to number	Comments
	Draw/pushing device			
5	Draw/pushing device free of damage, deformation and cracks that would necessitate detachment of the wagon and buffer height within permissible tolerance range?	Yes No	6 9.2	Visual check and measurement
	Underframe			
6	Underframe free of damage, deformation and cracks that would necessitate detachment of the wagon?	Yes No	7 9.2	Visual check
	Wagon body			
7	Vehicle superstructure free of damage, deformation and cracks that would necessitate detachment of the wagon?	Yes No	9.1 9.2	Visual check
	Other irregularities			
8	Is the wagon otherwise free of damage, deformation and cracks that would necessitate detachment of the wagon?	Yes No	9.3 9.2	Visual check
	Results of the examination of fitness to run	Measures		
9.1	a) The wagon is fit to run in the event of overloading exceedance >2% and ≤ 10% exceeded concentrated loads >5 % and ≤ 20% b)The wagon is fit to run in the event of: overloading exceedance >10% or exceeded concentrated loads > %	a) Loading adjustment, affix K label and report the wagon as being fit to run b) Unload the wagon, affix K label, transport the wagon to a workshop in close geographical proximity		
9.2	The wagon is not fit to run and, in its present state, cannot be added to a train.	Report the wagon as being unfitted to run and provide the reasons		
9.3	No significant overload or exceedance of the concentrated load to justify application of the checklist	Indicate that there is no relevant overload as per the checklist		

3. - RESERVED -

4. INSPECTION OF FITNESS TO RUN IN THE EVENT OF IRREGULARITIES IN OPERATIONS

- **Reference: Annex 1**, code 8.1: additional handling of the wagon following irregularities in operations
- **The measured values of the wheelsets must be documented for the purpose of traceability (Annex 12).**

1	2	3	4	5
Number	Question	Answer	Go to number	Comments
Provisions common to vehicles with individual axles and bogies				
1	Is the wagon marked with an interoperability sign conform to points 6.1.1.2 and 6.1.1.3 of Annex 1 ?	Yes No	2 15.2	
2	Is the loading gauge of the participating RUs respected?	Yes No	3 2.1	
2.1	Have the participating RUs agreed for the wagon to be handed over?	Yes No	3 15.2	
3	Has the wagon derailed?	Yes No	5 4	
4	Has the wagon sustained an abnormal buffering shock or an impermissible operating shock?	Yes No	6 15.1	
5	Is the derailment speed known?	Yes No	7/7.1 7/7.1	To document in km/h
6	Is the buffering speed known?	Yes No	10 10	To document in km/h
7	Does the wheel tyre thickness conform to the criteria of point 1.1.1 of Annex 1 or Does the groove marking the minimum thickness for one-piece wheels conform to the criteria of point 1.2.1 of Annex 1 ?	Yes No Yes No	8 15.2 8 15.2	To measure
8	Do the values S_d , S_h , qR and E lie within the permissible limits?	Yes No	9 15.2	For value E , measure at three points.
9	Does the distance between active surfaces (S_R) satisfy the following criteria: – no more than 1426 mm? – at least 1410 mm for a wheel diameter > 840 mm? – at least 1415 mm for a wheel diameter ≤ 840 mm?	Yes No	10 15.2	
10	Is the wagon visibly fitted with a uniform type of suspension springs?	Yes No	11 15.2	

1	2	3	4	5
Number	Question	Answer	Go to number	Comments
Provisions common to vehicles with individual axles and bogies				
11	Does the buffer height lie within the permissible tolerances?	Yes No	12 15.2	To measure
12	Does the wagon (or its load) have superstructures liable to rotate, be displaced or otherwise move during the journey?	Yes No	13 14	
13	Are there sufficient outwardly visible devices for securing moving superstructures (or their loads) and are they present and effective?	Yes No	14 15.2	
14	Is the wagon otherwise free of safety-critical damage or defects?	Yes No	15.1 15.2	
Results of the examination of fitness to run		Measures		
15.1	The wagon may continue to run at the marked speed as an exceptional consignment.	Fill out the Label I, indicate wagon as fit to run.		
15.2	The wagon may not be included in trains in its present condition.	Do not fill out the Label I, indicate wagon as unfit to run, giving reasons.		

5. EXAMINATION OF THE ABILITY TO RUN OF WAGONS EQUIPPED WITH DET (DERAILMENT DETECTOR)

- **Reference:** Appendix 8, point 5, procedure for onward carriage following the tripping of a DET

Checklist of wagon with DET

1	2	3	4	5
Number	Question	Answer	Go to number	Comments
Checklist of wagon with tripped DET				
Wheel centre				
1	Running surface and flange free of damage, deformation and cracks that would necessitate detachment of the wagon?	Yes No	2 5.2	Visual check
Axles/running gear				
2	Axles and axle boxes free of damage, deformation and cracks that would necessitate detachment of the wagon?	Yes No	3 5.2	Visual check
Bogie				
3	Bogie free of damage, deformation and cracks that would necessitate detachment of the wagon?	Yes No	4 5.2	Visual check
Connection between bogie and underframe				
4	Bogie suspension free of damage, deformation and cracks that would necessitate detachment of the wagon?	Yes No	5.1 5.2	Visual check
Results of the examination of fitness to run		Measures		
5.1	The wagon is fit to run.	Indicate that the wagon is fit to run and reset the DET		
5.2	The wagon is not fit to run and, in its present state, should not be added to a train.	Indicate that the wagon is not fit to run, providing the reasons		

APPENDIX 9, ANNEX 10

- reserved -

- reserved -

APPENDIX 9, ANNEX 11

I, K, M, R1 and U labels – General

The labels mentioned in **Annexes 1 and 8** (I, K, M, R1 and U) must be printed in either German, French or English. Translations into other languages can be attached. When used, they must always be filled out completely.

As a complement to the traceability provided by the labels, visible damage must be marked in crayon.

LABEL I

RU's symbol	Certificate of fitness to run	Label I
<p>The wagon with the number</p> <div style="display: flex; align-items: center; margin-top: 10px;"> <div style="border: 1px solid black; width: 20px; height: 20px; margin: 0 5px;"></div> <div style="border: 1px solid black; width: 20px; height: 20px; margin: 0 5px;"></div> <div style="border: 1px solid black; width: 20px; height: 20px; margin: 0 5px;"></div> <div style="border: 1px solid black; width: 20px; height: 20px; margin: 0 5px;"></div> <div style="border: 1px solid black; width: 20px; height: 20px; margin: 0 5px;"></div> <div style="border: 1px solid black; width: 20px; height: 20px; margin: 0 5px;"></div> <div style="border: 1px solid black; width: 20px; height: 20px; margin: 0 5px;"></div> <div style="border: 1px solid black; width: 20px; height: 20px; margin: 0 5px;"></div> <div style="border: 1px solid black; width: 20px; height: 20px; margin: 0 5px;"></div> <div style="border: 1px solid black; width: 20px; height: 20px; margin: 0 5px;"></div> <div style="margin: 0 10px;">-</div> <div style="border: 1px solid black; width: 20px; height: 20px; margin: 0 5px;"></div> <div style="flex-grow: 1; border-bottom: 1px solid black; margin-left: 10px;"></div> </div> <div style="display: flex; justify-content: space-between; margin-top: 5px;"> Wagon number (complete information) Wagon type </div>		
<p>Keeper (VKM or full address)</p> <p>_____</p> <p>was inspected with regards to its fitness to run. It makes one further journey empty/loaded*), running on its own wheels and without restriction to the speed marked on the wagon</p>		
<p>from</p> <p>_____</p> <p>Departure station</p>	<p>to</p> <p>_____</p> <p>Country code</p>	<p>_____</p> <p>Destination station**</p>
<p>_____</p> <p>Issuing office</p>	<p>on _____</p> <p>Date</p>	<p>_____</p> <p>Technical staff Name in capitals</p>
<p>*) delete as appropriate</p> <p>**) If known</p>		<p>_____</p> <p>Technical staff Signature</p>

yellow, size roughly 148 x 210 mm

Label I is used to indicate a vehicle's fitness to run following examination of fitness after the examination of fitness to run as set out in **Annex 9**.

Label I is to be affixed to both sides of the wagon, next to the K label.

LABEL K

(RU's symbol)	Wagon Number <div style="display: flex; justify-content: space-around;"> <div style="border: 1px solid black; width: 20px; height: 20px;"></div> <div style="border: 1px solid black; width: 20px; height: 20px;"></div> <div style="border: 1px solid black; width: 20px; height: 20px;"></div> <div style="border: 1px solid black; width: 20px; height: 20px;"></div> <div style="border: 1px solid black; width: 20px; height: 20px;"></div> <div style="border: 1px solid black; width: 20px; height: 20px;"></div> <div style="border: 1px solid black; width: 20px; height: 20px;"></div> <div style="border: 1px solid black; width: 20px; height: 20px;"></div> </div> <div style="text-align: center; margin-top: 5px;"> <div style="border: 1px solid black; width: 20px; height: 20px;"></div> - <div style="border: 1px solid black; width: 20px; height: 20px;"></div> </div>	Label <div style="font-size: 48px; font-weight: bold;">K</div>	
As per catalogue of irregularities, GCU Appendix 9, Annex 1	Do not reload / To be repaired following		
<div style="border: 1px solid black; padding: 5px; margin-bottom: 5px;"> <div style="border: 1px solid black; width: 30px; height: 30px; display: flex; align-items: center; justify-content: center; font-size: 24px; font-weight: bold;">1</div> Running Gear </div> <div style="border: 1px solid black; padding: 5px; margin-bottom: 5px;"> <div style="border: 1px solid black; width: 30px; height: 30px; display: flex; align-items: center; justify-content: center; font-size: 24px; font-weight: bold;">5</div> Buffing and draw gear </div> <div style="border: 1px solid black; padding: 5px; margin-bottom: 5px;"> <div style="border: 1px solid black; width: 30px; height: 30px; display: flex; align-items: center; justify-content: center; font-size: 24px; font-weight: bold;"></div> </div>	<div style="border: 1px solid black; padding: 5px; margin-bottom: 5px;"> <div style="border: 1px solid black; width: 30px; height: 30px; display: flex; align-items: center; justify-content: center; font-size: 24px; font-weight: bold;">2</div> Suspension </div> <div style="border: 1px solid black; padding: 5px; margin-bottom: 5px;"> <div style="border: 1px solid black; width: 30px; height: 30px; display: flex; align-items: center; justify-content: center; font-size: 24px; font-weight: bold;">6</div> Wagon body </div> <div style="border: 1px solid black; padding: 5px; margin-bottom: 5px;"> <div style="border: 1px solid black; width: 30px; height: 30px; display: flex; align-items: center; justify-content: center; font-size: 24px; font-weight: bold;"></div> </div>	<div style="border: 1px solid black; padding: 5px; margin-bottom: 5px;"> <div style="border: 1px solid black; width: 30px; height: 30px; display: flex; align-items: center; justify-content: center; font-size: 24px; font-weight: bold;">3</div> Brake </div> <div style="border: 1px solid black; padding: 5px; margin-bottom: 5px;"> <div style="border: 1px solid black; width: 30px; height: 30px; display: flex; align-items: center; justify-content: center; font-size: 24px; font-weight: bold;">7</div> Loads and load units </div> <div style="border: 1px solid black; padding: 5px; margin-bottom: 5px;"> <div style="border: 1px solid black; width: 30px; height: 30px; display: flex; align-items: center; justify-content: center; font-size: 24px; font-weight: bold;"></div> </div>	<div style="border: 1px solid black; padding: 5px; margin-bottom: 5px;"> <div style="border: 1px solid black; width: 30px; height: 30px; display: flex; align-items: center; justify-content: center; font-size: 24px; font-weight: bold;">4</div> Wagon under-frame and bogie </div> <div style="border: 1px solid black; padding: 5px; margin-bottom: 5px;"> <div style="border: 1px solid black; width: 30px; height: 30px; display: flex; align-items: center; justify-content: center; font-size: 24px; font-weight: bold;">8</div> Miscellaneous </div> <div style="border: 1px solid black; padding: 5px; margin-bottom: 5px;"> <div style="border: 1px solid black; width: 30px; height: 30px; display: flex; align-items: center; justify-content: center; font-size: 24px; font-weight: bold;"></div> </div>
Other details	<div style="border: 1px solid black; height: 20px; width: 100%;"></div>		
Stamp of issuing office	Date of stamping	Signature	
For issuing RU 's			

blue, size roughly 148 x 210 mm

K labels serve to indicate that there is a problem with the wagon or load unit, but that these can – for the time being – continue to be operated. However, the problems must be resolved prior to reloading; any reloading of the wagon will lead to its withdrawal.

The defect code must be filled out completely in accordance with GCU Appendix 9, **Annex 1**:

1. Circle or tick the number of the defect group/category
2. Enter the exact defect number in the empty boxes

K labels are to be affixed to both sides of the wagon in a clearly visible position, close to the label-holder or on the inscription plates. The printed version of the K label must contain the data provided for by this annex.

LABEL M

(RU's symbol) As per catalogue of irregularities, GCU Appendix 9, Annex 1	Wagon number <div style="display: flex; justify-content: space-around;"> <div><div style="border: 1px solid black; width: 20px; height: 20px;"></div><div style="border: 1px solid black; width: 20px; height: 20px;"></div></div> <div><div style="border: 1px solid black; width: 20px; height: 20px;"></div><div style="border: 1px solid black; width: 20px; height: 20px;"></div></div> <div><div style="border: 1px solid black; width: 20px; height: 20px;"></div><div style="border: 1px solid black; width: 20px; height: 20px;"></div><div style="border: 1px solid black; width: 20px; height: 20px;"></div></div> <div><div style="border: 1px solid black; width: 20px; height: 20px;"></div><div style="border: 1px solid black; width: 20px; height: 20px;"></div><div style="border: 1px solid black; width: 20px; height: 20px;"></div></div> </div> <div style="text-align: center; font-weight: bold; font-size: 1.2em;">To be inspected</div>	Label <div style="font-size: 4em; font-weight: bold; text-align: center;">M</div>
<div style="display: flex; justify-content: space-between;"> <div style="width: 22%;"> <div style="border: 1px solid black; padding: 5px; text-align: center; font-weight: bold; font-size: 1.5em;">1</div> <div>Running gear</div> </div> <div style="width: 22%;"> <div style="border: 1px solid black; padding: 5px; text-align: center; font-weight: bold; font-size: 1.5em;">2</div> <div>Suspension</div> </div> <div style="width: 22%;"> <div style="border: 1px solid black; padding: 5px; text-align: center; font-weight: bold; font-size: 1.5em;">3</div> <div>Brake</div> </div> <div style="width: 22%;"> <div style="border: 1px solid black; padding: 5px; text-align: center; font-weight: bold; font-size: 1.5em;">4</div> <div>Wagon under-frame and bogie</div> </div> </div> <div style="display: flex; justify-content: space-between; margin-top: 10px;"> <div style="width: 22%;"> <div style="border: 1px solid black; padding: 5px; text-align: center; font-weight: bold; font-size: 1.5em;">5</div> <div>Buffing and draw gear</div> </div> <div style="width: 22%;"> <div style="border: 1px solid black; padding: 5px; text-align: center; font-weight: bold; font-size: 1.5em;">6</div> <div>Wagon</div> </div> <div style="width: 22%;"> <div style="border: 1px solid black; padding: 5px; text-align: center; font-weight: bold; font-size: 1.5em;">7</div> <div>Loads and load units</div> </div> <div style="width: 22%;"></div> </div>		
<div style="display: flex; justify-content: space-around;"> <div><div style="border: 1px solid black; width: 30px; height: 20px;"></div></div> <div><div style="border: 1px solid black; width: 30px; height: 20px;"></div></div> <div><div style="border: 1px solid black; width: 30px; height: 20px;"></div></div> <div><div style="border: 1px solid black; width: 30px; height: 20px;"></div></div> <div><div style="border: 1px solid black; width: 30px; height: 20px;"></div></div> </div> <div style="margin-top: 5px;">Other details</div>		
Stamp of issuing office	Date of stamping	Signature
For issuing RU 's use		

White, size roughly 148 x 210 mm

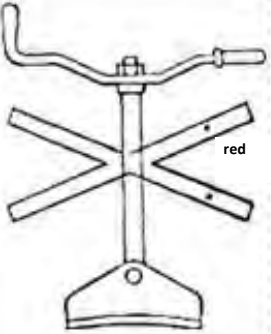
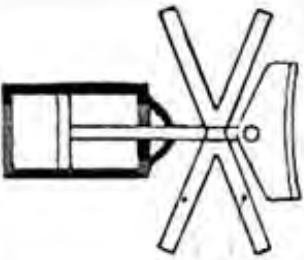
Label M is used to record wagon damage and defects that do not prevent the vehicle from continuing to run or being reloaded, but which require particular examination by the user RUs.

The defect code must be filled out completely in accordance with GCU Appendix 9, **Annex 1**:

1. Circle or tick the number of the defect group/category
2. Enter the exact defect number in the empty boxes

M labels are to be affixed to both sides of the wagon in a clearly visible position close to the label-holder or on the inscription plates. The printed version of the M label must contain the data provided for by this annex.

LABEL R1

	<p>(RU's symbol) Label R1</p> <p>Brake defective</p> <p>Observations _____</p> <p>_____</p> <p>_____</p> <p>(Date of stamping) _____ (Signature) _____</p>	
---	---	---

white, size roughly 105 x 210

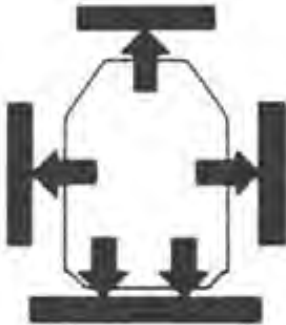
Label R1 is used to mark wagons with defective brakes or brakes that must not be used for specific reasons. If the brake in question is the handbrake (operated from the wagon platform or from the ground) then the inapplicable right-hand part of the label should be removed, while if the air brake is defective, the left-hand part of the label R1 does not apply and should be removed accordingly.

Label R1 is to be affixed to both sides of the wagon close to the brake stopcock or near the braked weight marking.

LABEL U

Label for Exceptional Consignments

(RU's symbol)

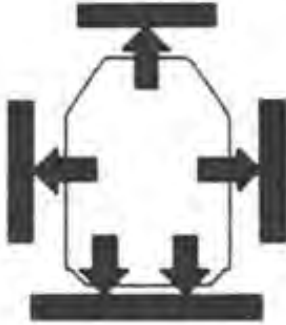


For label-holder

Total load	Load per metre	Maximum axle load
7+8 t	9 t/m	10 t

(RU's symbol)...../ (no.)

Label U (RU's symbol)



For label-holder


Total load	Load per metre	Maximum axle load
7+8 t	9 t/m	10 t

(RU's symbol)...../ (no.)

Part	Lateral distance from wagon centre-line on		Height above rail level	Longitudinal distance from end wheelset / bogie centre	
	one side	other side		14 0j mm	15 0j mm
	12a mm	12b mm	13 mm		
A					
B					
C					
D					

Part	Lateral distance from wagon centre-line on		Height above rail level	Longitudinal distance from end wheelset / bogie centre	
	one side	other side		14 0j mm	15 0j mm
	12a mm	12b mm	13 mm		
A					
B					
C					
D					

(RU's symbol)



(RU's symbol)...../ (no.)

Separate and attach to consignment note

White or blue, size roughly 210 x 210/50 mm

Label U is used to indicate Exceptional Consignments (EC) in accordance with number 7, Volume 1, of the Loading Guidelines. The provisions of UIC IRS 50502 apply to consignments of this kind. A further application is specified in **Annex 8**.

Label U is to be inserted in the label holder on both sides of the wagon.

VERSION: 1ST OF JANUARY 2026

107

- reserved -

APPENDIX 9, ANNEX 12

Traceability

The results of measurements by the user RU must be available in electronic format or on paper for a period of at least 2 years. The documentation remains as evidence of activity for the user RU.

Erfassung Radsatzdaten von Wagen im Betrieb Saisie de données d'essieu de wagon en exploitation Registration of axle data for operating wagon

Wagennummer: Numéro du wagon: Wagon number:				Gattung: Type: Type:			
Halter: Détenteur: Keeper:				E-Mail / Fax:			
Grund der Vermessung / Cause de la mesure / Reason for measurement:							
Entgleisung Deraillement Derailment		Thermische Überbeanspruchung Surcharge thermique Thermal overload		Lauffähigkeitsuntersuchung Examen d'aptitude à la circulation Fit-to-run inspection			
8L 7L		6L 5L		4L 3L		2L 1L	
2		6		4		2	
8R 7R		6R 5R		4R 3R		2R 1R	
Sh		Sh		Sh		Sh	
Sd		Sd		Sd		Sd	
qR		qR		qR		qR	
1L		2L		3L		4L	
5L		6L		7L		8L	
1R		2R		3R		4R	
5R		6R		7R		8R	
Sh		Sh		Sh		Sh	
Sd		Sd		Sd		Sd	
qR		qR		qR		qR	
E1		E1		E1		E1	
E2		E2		E2		E2	
E3		E3		E3		E3	
S _R		S _R		S _R		S _R	
Vermessen von / Mesuré par / Measurements taken by:							
Name:				Vorname:			
Nom:				Prénom:			
Surname:				First name:			
Tel. Nr:				Ort:			
N° de tél.:				Lieu:			
Tel. no.:				Location:			
Spurkranzlehre-Nummer:				Schadensprotokollnummer:			
Numéro de jauge:				Numéro du procès verbal:			
Gauge no. (wheel flange):				Damage report no.:			
Spurmesslehre-Nummer:				Bemerkungen:			
Numéro de calibre de mesure:				Remarques:			
Gauge no. (back-to-back distance):				Remarks:			
Werte eingehalten?		Ja		* Nein			
Valeurs respectées?		Oui		* Non			
Values compliant?		Yes		* No			
Massnahmen erforderlich?		Ja		Nein			
Suite à donner?		Oui		Non			
Follow-up action required?		Yes		No			
Wenn Ja, welche?							
Si oui, laquelle?							
If so, what?							
Datum:				Unterschrift:			
Date:				Signature:			
Date:				Signature:			