

## **APPENDIX 12 TO THE GENERAL CONTRACT OF USE**

<b>CATALOGUE OF DAMAGE TO WAGONS</b>
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Category	Part	Type of damage	Additional information	Responsibility of		
				Keeper	User RU	
Runnig gear						
	Tyred wheel	Tyre lose, laterally displaces, cracked	No sign of thermal overloading	X		
			Visible signs of thermal overloading (brake equipment faulty)	X		
			Visible signs of thermal overloading (brake equip. operational)		X	
	Tyre / wheel centre / solid wheel / wheel tread	Thermal overloading		No sign of thermal overloading	X	
				Braking equipment operational		X
		Cracks in the disc		No sign of thermal overloading	X	
				Visible signs of thermal overloading (brake equipment faulty)	X	
				Visible signs of thermal overloading (brake equipment operational)		X
		Clamping notches			X	
		Measuring circle not visible		Excessive wear of wheel centre (diameter too small)	X	
		Damage from track brakes		Notches with sharp-angled apex in the tyre and the rim or the lower rim of the tyre		X
		Traces of abrasion, flanges damaged		Accidental damage <sup>1)</sup>		X
		Cavity, shelling or flaking		Not including thermal overloading	X	
	Metal inclusions, flats			Brake equipment faulty	X	
				Brake equipment operational		X
	Occasional dents in wheel tread		Accidental damage <sup>1)</sup>		X	
	Out-of-roundness				X	
				If the damage can be clearly attributed to the RU		X
Axle shaft	Traces of abrasion on the axle shaft		Damage to wagon	X		
			No damage to wagon		X	
	Bent out of shape				X	
Cracks			Not the result of force	X		
Axle-boxes	Hot axle-box		Confirmed	X		
			Not confirmed		X	
	Recent leakage of lubricant		High Axle-box temperatures, abnormal noises in the box when the axle rotates	X		
	Traces of contact on the axle-box housing (top-contact with bogies)		Suspension and dampers in good condition and wagon not overloaded		X	
Manganese plates			Missing	X		
			Cracked weld beads	X		

<sup>1)</sup> Accidental damage in the sense of Appendix 12 is understood as damage not resulting from wear but either from inappropriate handling of the wagon (e.g. shunting accidents, side-on collisions or other sudden events), or which can be attributed to culpable violation of wagon custody obligations by an RU.

Category	Part	Type of damage	Additional information	Responsibility of	
				Keeper	User RU
<b>Suspension</b>					
	Springs	Ruptured, cracked, etc.		X	
		Fatigued		X	
		Wrongly fitted (parallel)		X	
		Wrongly fitted (characteristic curve) or wrong type of leaf spring		X	
	Friction damper	Any type of damage		X	
<b>Brake</b>					
	Mechanical and pneumatic brake parts	Defective brake rigging	Accidental damage <sup>1)</sup>		X
			Wear	X	
		Defective changeover device	Accidental damage <sup>1)</sup>		X
			Wear	X	
		Defective hand brake		X	
		Brake blocks (all types of damage)		X	
		Defective hand brake	Accidental damage <sup>1)</sup>		X
			Wear	X	
		Safety stirrup missing		X	
		Safety stirrup damaged or defective	Accidental damage <sup>1)</sup>		X
		Other brake parts defective (e.g. distributor, load-weigh valve, brake cylinder, changeover device, relay valve, etc.)	Confirmed (brake report included)	X	
			Not confirmed		X
		Brake pipe leaking	Wear	X	
			Accidental damage <sup>1)</sup> (distorted, cracked)		X
		Defective brake hose	cracked, leaking	X	
Defective brake connection		X			
Defective air brake parts	Confirmed by brake test	X			
	Not confirmed by brake test		X		

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Category	Part	Type of damage	Additional information	Responsibility of		
				Keeper	User RU	
Underframe and bogie	Wagon underframe	Fatigue cracks, fissuring		X		
	Headstock or solebar	Deformed	Except traces of fatigue		X	
	Axle guard	Deformed				X
		Broken or loose			X	
	Axle guard tie bar	Bent or broken				X
		Loose			X	
	Suspension bracket	Loose, fatigue cracking			X	
		Fissured, deformed	Accidental damage <sup>1)</sup>			X
	Underframe / bogie connection	Connecting parts loose or damaged			X	
	Bogie frame	Deformed				X
		Fatigue cracks			X	
	Bogie side bearers	Any type of damage			X	
	Overhaul plate	Vehicle erroneously removed from service before expiry of overhaul period		Costs for authorisation to run / special consignment		X
	General markings as required by law	Incomplete			X	
		Illegible		E.g. because of projecting load, papered over, graffiti, etc.	X	
			Graffiti on RID dangerous goods wagon		X	
Earthing cable	Missing				X	
	Damaged		Wear	X		

Category	Part	Type of damage	Additional information	Responsibility of	
				Keeper	User RU
<b>Buffing and draw gear</b>					
	Buffer	Different types	Not previously changed by an RU	X	
		Buffer position not within tolerance range / Plunger stuck	Traces of impact (contact between plunger and sleeve) Old cracks and / or welds	X	X
	Anti-crash device	Defective	hunting impacts at too high speeds		X
			Normal wear	X	
	Buffer head	Broke or distorted			X
	Buffer sleeve	Broken or cracked	Normal wear	X	
			Result of force <sup>1)</sup>		X
	Buffer fastening	Loosened Broken	Normal wear	X	
			No fatigue cracks		X
	Buffer spring	Ineffective	Can be compressed by hand	X	
	Draw hook / draw bar	Broken	Fatigue (old crack)	X	
			Accidental damage <sup>1)</sup> (clean recent breakage)		X
		Twisted			X
				X	
Drawgear	Torn out	Accidental damage <sup>1)</sup>		X	
Screw coupler	Wear Accidental damage <sup>1)</sup>		X		
				X	
Screw coupling dummy hook	Twisted, broken			X	
<b>Superstructure</b>					
	In general	Wear and tear		X	
		Accidental damage <sup>1)</sup> when in the custody of the RU			X
	Ladders, walkways, steps, towing rings, handrails, label-holders	Wear		X	
		Accidental damage <sup>1)</sup> when in the custody of the RU			X
Tank		Damage resulting from damaged underframe	Accidental damage <sup>1)</sup> when in the custody of the RU		X
		Damage to the tank	Accidental damage <sup>1)</sup> when in the custody of the RU		X
		Bracing / sealing caps not air / waterlight	Accidental damage <sup>1)</sup> when in the custody of the RU		X
		Tank cradle cracked		X	
			Accidental damage <sup>1)</sup> when in the custody of the RU		X
Earthing cable (on the tank)	Missing, damaged Wear		X		
			X		

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