Amendments and additions to the GCU Proposal sheet

Appendix 12 - Change of liability for damages on wheel treads

Record of amendments Amended by Date Paragraph			Amendment		
Andreas Mack,	21.05.2024	App. 12	New cost allocation rule for damages on wheels		
SBB Cargo International AG					
1 Expose the problem (w possible, figures giving a of the problem): Appendix 12 GCU is intended settlement of claims and to the tear of freight wagons into a repair costs to the keeper (w railway undertakings (violen). The rules for this cost allocat of cast iron brake blocks and today's reality. Since the intriburake blocks on freight wages freight trains, damages on the have increased dramatically. Damages to the wheel tread applied hand brakes when the blocked position. This causes proposal. In many other cass proposal, the damage on the happens on singular occasion period of growth. RU's are experiencing the irrinfluences on the damage point of growth. RU's are experiencing the irrinfluences on the damage point of growth. RU's are experiencing the irrinfluences on the damage point of growth. RU's are experiencing the irrinfluences on the damage point of growth. RU's are experiencing the irrinfluences on the damage point. RU's are experiencing the irrinfluences on the damage point of growth. RU's are experiencing the irrinfluences on the damage point of growth. RU's are experiencing the irrinfluences on the damage point be handled by the R the wheel tread as if the brack and/or the application of a here are and the train driver (I As only one brake valves as well composition brake blocks use and/or the application of a here are are and/or the application of a here are are and/or the application of a here are are and the are are and the are are are and the are are are and the are are are are are are are are are ar	measure of ed to facilitat take the norr account. It all vear and tea t damage). ation date ba d do no long roducing of cons to reduc he wagon's w d can be cau he wheel is p e is not subje ess, relevant e wheel treat ons or during theraction of attern, such I as the natu sed. Both inf U and show ke was misu due to these ar again afte low pressure ows this dam ition during t e valve by th and brake is ys have to be cally have no if the set-up inposition bra	the scope e the mal wear and ocates the r) and to the ck to the time er fit into composition e the noise of wheel treads sed by bulled in ect of this for this d either g a longer different as the quality re of the luences damages on ised by the e influences r proper e overload). aging he journey, a e driver impossible.	2 Show what the GCU is lacking in this respect: Appendix 12 GCU lists the functionality of the brake as the only criteria for the cost allocation of tread damage. If the brake is in good working order, the costs shall be borne by the RU. If the brake is not working properly, the costs are borne by the keeper. The only test procedure for this is the test programme of UIC Leaflet 543-1 which is applied in maintenance and artificial conditions and not in the train composition of reported damage occasion. Classification rules and test procedures date back to the time of grey cast iron brake blocks and do not take into account the development of damage to running surfaces that has occurred since the introduction of plastic brake blocks, in particular LL brake blocks.		

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brake measurement system and has no plarm or	
brake measurement system and has no alarm or noticeable deviation on one of the wheel sets. After	
several kilometres the train passes the next	
measurement system and suddenly shows a hot	
brake alarm on two wheels on wagon no. 15 with	
roundabout 230 degrees Celsius. All other wheelsets are not noticeable warm or hot and the brake is not	
applied while passing the system. The train driver still	
gets alerted and performs a low pressure overload of	
the train's brake system which automatically lowers	
back to the regular 5 bar pressure. At the following	
measurement system the train passes again without	
any noticeable deviations. The wheels on wagon no. 15 also do not show any overheating any more and	
the train can continue.	
In another train departure check no visual damages	
to the wagon's wheels are found and no damage	
reports are filed. In a following maintenance check	
the wheels are being changed for damages by the	
keeper. Even if relevant damages on the wheels are found in train control and a damage report is filed,	
there is no evidence of misuse of the brake by the	
RU.	
3 Explain why the problem can only be solved	4 Outline why the problem should be solved as
through the GCU contract:	envisaged in the proposed amendment/addition:
The east allocation rule on a procedure to facilitate	The emendment will be to generally consider all tread
The cost allocation rule as a procedure to facilitate claims settlement only exists in the GCU and is not	The amendment will be to generally consider all tread damage as wear and tear attributed to the keeper. An
included in any other set of rules. In addition, many	exception to this is damage caused by force in railway
more cases of malfunctioning brake valves or growing	operations, which must be attributed to the user RU.
damages on wheel treads over time occur than actual	Forced damage in railway operation includes handbrake
damages are done by the RU in operation. Therefore unnecessary discussions and cost allocations can be	failures or overbraking with flat spots > 60 mm on all wheelsets of the wagons and maybe even more than one
prevented. Damages done to the wheel by the RU can	wagon in the train composition.
more easily be proven than the malfunctioning of the	
brake valve after the wagon gets shunted out and tested in artificial conditions.	The new principle ends the current situation whereby
	RUs have to pay for damage that they are highly unlikely
Other damages related to the operation of wheels are already assigned to the responsibility of the keeper, as	to have caused. At the same time the new principle
damage causes are linked to maintenance	strengthens the responsibility of the ECM for the safe condition of the wagon for operation, which should in any
procedures.	case monitor the wheelset as a safety-critical component
	of the freight wagon.
5 Describe how the proposed amendments or	6 Assess the potential positive and negative
additions will help solve the problem:	impacts (on operations, costs, administration, interoperability, safety, competitiveness, etc.), using
The elegation of tread demosts as wear as him to	a scale from 1 (very low) to 5 (very high):
The classification of tread damage as wear and tear appears to be appropriate in the light of current	
technical developments using composition brake	Operations: no impact
blocks. It is proven that composition brake blocks have	<u>Operations</u> : no impact <u>Costs</u> : no impact in amount of cases, as long as low
blocks. It is proven that composition brake blocks have other influences on the wheel treads than cast iron	<u>Costs</u> : no impact in amount of cases, as long as low quality brake valves are being used and cause brake
blocks. It is proven that composition brake blocks have other influences on the wheel treads than cast iron brake blocks, simply in not diverting heat from the	<u>Costs</u> : no impact in amount of cases, as long as low quality brake valves are being used and cause brake mistakes on single wagons in train composition. RU will
blocks. It is proven that composition brake blocks have other influences on the wheel treads than cast iron brake blocks, simply in not diverting heat from the wheel into other parts and damaging the wheel tread	<u>Costs</u> : no impact in amount of cases, as long as low quality brake valves are being used and cause brake mistakes on single wagons in train composition. RU will save money and will be able to produce more cost
blocks. It is proven that composition brake blocks have other influences on the wheel treads than cast iron brake blocks, simply in not diverting heat from the wheel into other parts and damaging the wheel tread with exceeding heat entry as result. Moreover the quality of brake valves differs a lot and may cause	<u>Costs</u> : no impact in amount of cases, as long as low quality brake valves are being used and cause brake mistakes on single wagons in train composition. RU will
blocks. It is proven that composition brake blocks have other influences on the wheel treads than cast iron brake blocks, simply in not diverting heat from the wheel into other parts and damaging the wheel tread with exceeding heat entry as result. Moreover the	<u>Costs</u> : no impact in amount of cases, as long as low quality brake valves are being used and cause brake mistakes on single wagons in train composition. RU will save money and will be able to produce more cost effective. Keepers will spend more money on damages
blocks. It is proven that composition brake blocks have other influences on the wheel treads than cast iron brake blocks, simply in not diverting heat from the wheel into other parts and damaging the wheel tread with exceeding heat entry as result. Moreover the quality of brake valves differs a lot and may cause	<u>Costs</u> : no impact in amount of cases, as long as low quality brake valves are being used and cause brake mistakes on single wagons in train composition. RU will save money and will be able to produce more cost effective. Keepers will spend more money on damages that cannot be proved as a mistake by the RU, but save
blocks. It is proven that composition brake blocks have other influences on the wheel treads than cast iron brake blocks, simply in not diverting heat from the wheel into other parts and damaging the wheel tread with exceeding heat entry as result. Moreover the quality of brake valves differs a lot and may cause	<u>Costs</u> : no impact in amount of cases, as long as low quality brake valves are being used and cause brake mistakes on single wagons in train composition. RU will save money and will be able to produce more cost effective. Keepers will spend more money on damages that cannot be proved as a mistake by the RU, but save

It also reduces the risk of RUs questioning the GCU contract as a whole because it forces them to fulfil unjustified cost claims by keepers they can neither prove wrong nor handle due to missing ECM responsibilites.	Interoperability: no impact
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7.- Proposed text

Colour coding of amendments: Black: Current text (remains unchanged, included for reference purposes) Red: new text Blue: (may be struck through): text to be deleted

English

Appendix 12 Page 2

Part	Type of damage	Additional information	Keeper	User RU
Tyre / wheel centre / solid wheel / wheel tread	Thermal overloading	Braking equipment operational Singular wagon in train composition and no evidence for accidental damage	x	×
		Fixed handbrake or overbraking in operation (accidental damage ¹⁾)		X
	Metal inclusions, flats	Braking equipment operational Singular wagon in train composition and no evidence for accidental damage	x	×
		Fixed handbrake or overbraking in operation (accidental damage ¹⁾)		X

 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

Anlage 12, Seite 2

Bauteil	Schadensbild	Zusätzliche Informationen	Halter	Verw. EVU
Radreifen / Radscheibe / Vollrad / Laufflächen	Thermische Überbeanspruchung	Bremseinrichtung in Ordnung Einzelner Wagen in der Zugzusammenstellung und kein Hinweis auf Gewaltschäden	x	×
		Feste Handbremse in Betrieb oder fehlerhafte Verwendung des Bremssystems durch den Triebfahrzeugführer (Gewaltschaden ¹⁾)		X
	Materialauftragungen, Flachstellen	Bremseinrichtung in Ordnung Einzelner Wagen in der Zugzusammenstellung und kein Hinweis auf Gewaltschäden	×	×
		Feste Handbremse in Betrieb oder fehlerhafte Verwendung des Bremssystems durch den Triebfahrzeugführer (Gewaltschaden ¹⁾)		X

 Unter Gewaltschäden im Sinne der Anlage 12 sind insbesondere solche Schadensbilder zu verstehen, die nicht auf Verschleiß beruhen, sondern auf unsachgemäße Behandlung der Wagen (z.B. Rangierunfälle, Flankenfahrten oder andere plötzliche Ereignisse) oder auf eine schuldhafte Verletzung von Obhutspflichten durch ein EVU zurückzuführen sind.

French

Annexe 12, Page 2

Elément de construction	Nature des avaries	Informations complémentaries	Du détenteur	De l'EF util.
Bandage / toile de roue / roue monobloc / table de roulement	Surcharge thermique	Dispositif de freinage en état Wagon isolé dans la composition du train et aucune indication de dommages causés par la violence	x	×
		Frein à main fixe en service ou utilisation défectueuse du système de freinage par le conducteur (dommage par violence ¹)		X
	Apports de métal, méplats	Dispositif de freinage en état Wagon isolé dans la composition du train et aucune indication de dommages causés par la violence	x	×
		Frein à main fixe en service ou utilisation défectueuse du système de freinage par le conducteur (dommage par violence ¹)		x

 Par endommagements suite à incident, au sens de l'annexe 12, il faut entendre notamment les dommages qui ne résultent pas de l'usure, mais qui sont à attribuer à des manipula- tions inappropriées du wagon par l'EF (par exemple : incidents au cours du triage, collisions latérales ou autres événements soudains) ou à une violation fautive des obligations de garde qui sont à diligenter par une EF.