

Reporting Body	IT Ministero delle infrastrutture e dei trasporti	ID	IT-1424
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Occurrence Summary

What		Location	
Date of occurrence	06-06-12	Location name	Line Verona - Brennero, Bressanone station, track n°2
Local time	11:55	Latitude	46:43:04 North
Event type	Railway vehicle movement events Train derailment	Longitude	11:39:26 East

Description Derailment of the loco and of the first 9 wagons of the train 44213 (Brennero - Brescia), running on the second track of the Bressanone station and carrying iron scraps

Direct Cause descrip shifting out of wheel of a wagon

Final Report

Nam	Desc	Type	Size	Last	Orga	Repo
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Other Attachments

Nam	Desc	Type	Size	Last	Orga	Repo
			0			

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What

Title Train derailment, 06/06/2012, Line Verona - Brennero, Bressanone station, track n°2 (Italy)

Occurrence type	Railway vehicle movement events Train derailment	Occurrence Class	Serious accident
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Date of occurrence	06-06-12	Local time	11:55
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Events Railway vehicle movement events - Train derailment

Descriptions

Language	English	Translation provider	Information providers own translation
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Description Derailment of the loco and of the first 9 wagons of the train 44213 (Brennero - Brescia), running on the second track of the Bressanone station and carrying iron scraps

Location name	Line Verona - Brennero, Bressanone station, track n°2		
Railway System type	Railway	Country	Italy
Location type	Station	Border Country	
Line type	Double track	Line number	
Allowed line speed		Km number	
Latitude	46:43:04 North	Longitude	11:39:26 East
Location description	Line Verona - Brennero, Bressanone station, track n°2		
Additional location in			
Location type details	Other (running track)	Fixed installations	

Occurrence details

Railway vehicles

Movement type	Freight train	Train number	44213
RU	Italy RTC SpA	Wagons overturned	Yes
Train speed at mom		Passengers onboard	No

Vehicle description

Other objects involved in the occurrence

Other objects

Parties involved

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IM Involved	Italy - RFI SpA	RU Italy - RTC SpA	
	Fatalities	Serious injuries	Minor injuries
Passengers	0	0	0
Staff	0	0	0
Level crossing users	0	0	0
Unauthorised persons	0	0	0
Others	0	0	0
Total	0	0	0

Material consequences

Material Damage	Infrastructure Rolling stock	Estimated total mate	> 2 000 000 €
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Damage description

Images

Name	Description	Type	Size	Last modified	Organization	Repository
			0			

Causation

Causes

Language	English	Translation provider	Information providers own translation
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Direct Cause description

shifting out of wheel of a wagon

Underlying and root causes description

Lack of correct maintenance of some axles.

Limits of the regulatory framework for the coupling wheels/axles.

Causation classification

Railway vehicle movement events - Train derailment

1 - Wheels, axles, boogies and running gear

1 - Maintenance of rolling stock

1 - Regulatory Framework

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Recommendations**Recommendation**

Issuing information

Recommendation title	1		
Recommendation ID	REC-000371	End implementer	NSA
Status	Sent to addressee	Addressee	NSA
Issue date	14-07-14		

Recommendation texts

Language	English	Translation provider	Information providers own translation
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Recommendations text

The National Safety Authority (ANSF) assess the possibility to inhibit the movement, on the entire national territory, also promoting a similar extent, through ERA, at the level of other Community networks, freight wagons that have undergone maintenance operations prior to the date of 21/12/2012 as having ECM or maintenance company ÖBB TS; this is because, just as of this date, this company has provided operational provisions, in relation to the maintenance and assembly of wheelsets, which meets the EN13260 standard. Up to that date had been foreseen by ÖBB TS a check which took account only of the trend chart of the pressing on, to verify compliance with the standard UIC 813; the NSA (ANSF) also assess the possibility of extending this provision also to wagons of other companies / keepers who may have used similar methods of wheel-axles assembly.

Implementation information

Implementation status	Implementation date
Unknown	

NSA Response

NIB Comment

Recommendation

Issuing information

Recommendation title	2		
Recommendation ID	REC-000372	End implementer	NSA
Status	Sent to addressee	Addressee	NSA
Issue date	14-07-14		

Recommendation texts

Language	English	Translation provider	Information providers own translation
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Recommendations text

The National Safety Authority (ANSF) assess the possibility to inhibit the movement of all the cars and wagons with wheelsets (whatever the date of the last maintenance) who do not respond to the cold pressing on instructions provided by the EN 13260, as indications that arising from the investigation show profiles of inadequacy from the point of view of safety of the UIC 813 .As part of that check will also be considered whether to initiate a confrontation with the UIC and the CEN, to verify the feasibility of increasing the minimum interference value established by the aforementioned UIC 813 and EN 13260. The investigation shows that the mere compliance with these minimum values, is reflected in the safety because these values do not provide sufficient margins against pressing out.

Implementation information

Implementation status

Implementation date

Unknown

NSA Response

NIB Comment

Recommendation

Issuing information

Recommendation title 3

Recommendation ID REC-000373

End implementer

NSA

Status Sent to addressee

Addressee

NSA

Issue date 14-07-14

Recommendation texts

Language

English

Translation provider

Information providers own
translation

Recommendations text

The National Safety Authority (ANSF), as part of the possible confrontation with the UIC and the CEN referred to in Recommendation No. 2, consider whether to propose, in this context, the activation of a process of approval of the lubricants to be used in pressing on operations.

Implementation information

Implementation status

Implementation date

Unknown

NSA Response

NIB Comment

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Recommendation

Issuing information

Recommendation title	4		
Recommendation ID	REC-000374	End implementer	NSA
Status	Sent to addressee	Addressee	NSA
Issue date	14-07-14		

Recommendation texts

Language	English	Translation provider	Information providers own translation
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Recommendations text

The National Safety Authority (ANSF), must make sure that, within the framework of actions for the structuring of a European regulatory framework for maintenance which provides for the traceability of operations and certain operating protocols, highlight the need for in the operations of pressing-on of wheelsets must be highlighted the pressing-on diagrams, the value of the wheel-axle interference and the values of roughness, in the hub of the wheel as in the wheel seat of the axle, and that these values are the result of measurements.

Implementation information

Implementation status	Unknown	Implementation date	
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NSA Response

NIB Comment

Causation links

Railway vehicle movement events - Train derailment

Subsystem - Rolling stock - Wagons - Wheels, axles, boogies and running gear

Causal factors - Maintenance - Maintenance of rolling stock

Systemic factors - Regulatory Framework

Investigation details

Legal Basis	National rules imposed by implementing of the Safety Directive 2004/49/EC - in light of Article 19, §1 of SD
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Other reason descrip

ID	IT-1424	Reporting Body	Ministero delle infrastrutture e dei trasporti
National investigatio			
Occurrence creation	07-06-12 09:40:26	Investigator in charge	
Decision to investigate	07-06-12		

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Declaration date	07-06-12
Date of IM/RU notific	07-06-12

Report Type	Final report	Workflow Status	Validated
Report Version	2	Investigation Status	Closed

Other Attachments	Name	Descriptio	Type	Size	Last	Organizati	Repositor
				0			

Final Report	Name	Descriptio	Type	Size	Last	Organizati	Repositor
	Bressanon e_Rel_Fin _completa _di_pref_ e_racc_sia _in_ingles e_che_in_ italiano.pdf	Final report and official recomme ndations	applicatio n/pdf	8630527	9/5/2014 2:11:34 PM	Softeco	