

Safety Alert

Subject: Rolling Stock - wheel

Equipment: Freight wagon type Laaiis- Wheelset type BA 390

Country: Switzerland

Issuer: NIB

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Description

On 10th of August 2023, SBB-Cargo (RU) freight train 45016 was on its way from Chiasso to Basel with two locomotives (BR 185) and 30 different wagons. Approx. 10 km after entering the South portal of the Gotthard Base tunnel, a piece of the wheel of the first wheelset of the 11th wagon broke. Shortly afterwards, other pieces came off the wheel. The wheelset was still hanging crosswise under the wagon. This track section is equipped with bi-block sleepers. The wagon then continued for about 4 km in the tunnel without causing any major damage to the infrastructure. Shortly before the multifunction station Faido at approx. km 17 from the tunnel portal, a last wheel stub broke. The wheelset, which was still attached to the wagon, derailed under the wagon and hit the sleepers in front of the Faido switch. As a result, sixteen wagons derailed and partially overturned in the tunnel.

The wagon is from type Laaiis. The wheelset is from type BA 390 and the brakes are fitted with composite brake blocks, type LL. The wheelset has travelled approximately 140,000 km since his last IS2 (program VPI 04) inspection at the end of 2017.

A metallurgical analysis of the broken wheel is underway. An interim report was published by NIB CH on 28th September 2023 and is publicly available on the website of STSB (NIB CH) in German (only language version available for the moment) at the following link: https://www.sust.admin.ch/inhalte/BS/2023081002_GBT_ZB_D.pdf

Załączniki

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