

SAFETY ALERT	
SUBJECT	Rolling stock – wheels
EQUIPMENT	Fracture of wheel rim of monoblock wheel produced by Lucchini Poland sp. z o.o. for PESA Bydgosz S.A. according to drawing no 22MNk 090111-1-01
DESCRIPTION	<p>On 16th January 2021 at 17:20 during ride of a train no MOM 88315 from Piła Główna to Ulikowo operated by POLREGIO sp. z o.o. with vehicle SA136-004 between Recz Pomorski and Tarnowo Pomorskie on railway line no 403, around 1/6 of wheel rim detached on third axle from train front following application of brakes (see attached photo). The damage was discovered by train driver who heard an unusual crack. The train was not derailed.</p> <p>Diesel multiple unit SA136-004 was produced in 2010 by PESA Bydgoszcz S.A. The damaged wheel was produced in 2015 by Lucchini Poland sp. z o.o. and mounted by PESA Bydgoszcz S.A. during repair which finished on 21st January 2016. The vehicle travelled 307 063 km since the day when the wheel was mounted.</p> <p>Monoblock wheel with brake discs was produced from steel grade ER8T UPLOS, heat number E1501721. Nominal wheel diameter is $\Phi 840$ mm, during the incident it was $\Phi 780,5$ mm while $\Phi 780$ mm is the limit in-service value. The wheel rim thickness during the incident was also close to limit in-service value (21,75 mm while 21,5 mm is the limit). The wheel was produced according to drawing no 22MNk 090111-1-01. Currently it cannot be excluded that other similar wheel types (e.g. 21MNk 090101-2-01, 24MN 090111-1-00) could also be affected by the problem.</p> <p>At the moment the incident investigation is on-going. Damaged wheel will be send for technical expertise in a notified body. No recommendations were issued up to date, however this alert is supposed to inform all the entities in charge of maintenance of railway vehicles about the incident and therefore allow them to analyse their specific situation and take necessary additional actions in the framework of maintenance management systems.</p>
COUNTRY	Poland
ISSUER	NSA
ISSUING DATE	8 February 2021