



The Joint Sector Group

To

- the heads of the undersigned associations
(for distribution to all members)
- all national Joint EVIC/EWT bodies
(for information and translation into national languages)

Copy:

- GCU bureau (for information)

Brussels, 30.11.2011

Use of tired wheels in tread braked freight wagons with $v_{max} > 80$ km/h

Dear Ladies and Sirs,

Following the agreement between Germany and Poland, we'd like to inform you on several important deadlines linked to the use of tired wheels for freight wagons:

Expiring dates: tired wheels for tread braked freight wagons with $v_{max} > 80$ km/h	
Expiring date of procurement of tired wheels for tread braked freight wagons with $v_{max} > 80$ km/h	01.01.2011
Expiring date of rehabilitation (re-tyrin) of tired wheels for tread braked freight wagons with $v_{max} > 80$ km/h	01.01.2012
Date to stop operation with tired wheels) for tread braked freight wagons with $v_{max} > 80$ km/h	01.01.2020 at the latest From 01.01.2013: Wear limit of tyre thickness (minimum) after last reprofiling: 43 mm*

* Explanation of wear limit of tyre thickness (minimum) after last reprofiling		
Limit of tyre thickness for freight wagons (EN 15 313, $v = 120$ km/h)	35 mm (old: 100 km/h, 30 mm)	35 mm
Maximum wear of the tyre (based on permissible flange high)	$36 - 28 = 8$ mm	+ 8 mm
Wear limit of tyre thickness after last reprofiling		= 43 mm



In regard of different risk assessment studies and the implied higher derailment risk of tired wheels, the JSG is in favour of the measures under the presented timeframe and recommend a sector wide implementation.

Further according to the European DNV study on train derailments, tired wheels have the disadvantage that the wheel ring can come loose and be displaced, in particular due to heating in prolonged braking actions. A wheel with a displaced or lost wheel ring is likely to derail. As preventive measure to derailment, the JSG recommend therefore to replace tired wheels with monoblock wheels.

We thank you very much for your support on this activity and will keep you informed about all further developments.

With best regards,

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annex: none