

RID/ADR/ADN

Joint meeting of the RID experts' committee
and the working group on transport of dangerous goods
(Geneva, 23 – 26 March 2009)
Agenda item 2: Tanks

Para 6.8.4 – special provision TT 8.

Amendment from the International Private Wagon Union (UIP)

Amendment

The proposal is to make the following change to the first sentence of special provision TT 8 of para. 6.8.4:

“During every recurrent inspection magnetic powder tests for surface cracks must be carried out on tanks made of fine-grained steels used for the transport of UN 1005 AMMONIA DRY GAS with a materials standard yield stress of over 400 N/mm²”.

Justification

It is known that surface cracks can appear on tanks made of fine-grained steel with a yield stress of over 400 N/mm² when product UN 1005 ammonia dry gas is used. In para. 6.8.4 special provision TT 8 the RID/ADR stipulates that by derogation from the rule these tanks must undergo a magnetic power test according to para. 6.8.2.4.2 during recurrent checks.

The special provision stipulates that all tanks made of these materials and which are **authorized** for product UN 1005 ammonia, dry gas, must be checked. However, as the risk of surface cracks only applies to tanks which **are also used** to transport UN 1005 ammonia, dry gas, we believe the text must be amended.

Tanks for transporting UN 1005 ammonia are almost identical in construction to other LPG tanks. These tanks are therefore always also authorized for the usual range of LPG products, often only used to transport this gases and not yet for ammonia. UN 1005 ammonia accounts for only a small volume of transport. It is important to note that NH₃ may only be transported by tanks which include this product on the tank plate as well as in the registration document.

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As regular magnetic powder testing of a tank clearly also involves considerable cost but is only technically advisable if tanks actually transport ammonia, the UIP is proposing the above amendment to the text.

It would therefore only be necessary to carry out regular magnetic powder tests on tanks which are susceptible to surface cracks due to their use with the ammonia product. These tanks are clearly identifiable by the product list on the tank sign.
