

Proposal for amendments to the 03 series of amendments to UN Regulation No. 110 (CNG and LNG vehicles)

The text below has been prepared by the expert from OICA as defined by the members of the task force on gas-fuelled vehicle regulations with the aim to address issues associated with periodic requalification of CNG cylinders. The modifications to the current text of the regulation are marked in bold for new or strikethrough for deleted characters.

I. Proposal

Annex 3A, paragraph 4.1.4., amend to read:

"4.1.4. Periodic requalification

For those countries that require a periodic requalification, it shall be performed in accordance with the relevant regulations of the country(ies) where the cylinders are used. Recommendations for periodic requalification by visual inspection or testing during the service life shall be provided by the **vehicle manufacturer or system integrator** ~~cylinder manufacturer~~ on the basis of use under service conditions specified herein. Each cylinder shall be visually inspected at least every 48 months after the date of its entry into service on the vehicle (vehicle registration), and at the time of any reinstallation, for external damage and deterioration, ~~including under the support straps~~. **It is suggested to visually inspect under the support straps as well.** The visual inspection shall be performed by a competent agency approved or recognized by the Regulatory Authority, **in consideration of** ~~in accordance with~~ the manufacturer's specifications: Cylinders without label containing mandatory information or with labels containing mandatory information that are illegible in any way shall be removed from service. If the cylinder can be positively identified by manufacturer and serial number, a replacement label may be applied, allowing the cylinder to remain in service."

Annex 3B, paragraph 2.1.3., amend to read:

"2.1.3. Periodic requalification

For those countries that require a periodic requalification, it shall be performed in accordance with the relevant regulations of the country(ies) where the cylinders are used. Recommendations for periodic requalification by visual inspection or testing during the service life shall be provided by the **vehicle manufacturer or system integrator** ~~tank manufacturer~~ on the basis of use under service conditions specified herein. Each tank shall be visually inspected at least every 120 months after the date of its entry into service on the vehicle (vehicle registration), and at the time of any reinstallation, for external damage and deterioration, ~~including under the support straps~~. **It is suggested to visually inspect under the support straps as well.** The visual inspection shall be performed by a Technical Service designated or recognized by the Type Approval Authority, **in consideration of** ~~in accordance with~~ the manufacturer's specifications: tanks without label containing mandatory information, or with labels containing mandatory information that are illegible in any way shall be removed from service. If the tank can be positively identified by manufacturer and serial number, a replacement label may be applied, allowing the tank to remain in service."

II. Justification

1. As requested at the second meeting of task force on gas-fuelled vehicle regulations on 27th/28th June 2018 in Cologne, OICA provide a document which clarifies the recommendations for the periodic requalification process.
2. The outcome of this meeting was an amended wording for Annex 3A, paragraph 4.1.4. as written above. The paragraph 2.1.3. in Annex 3B is proposed to be similarly amended.