

Proposal for amendments to ECE/TRANS/WP.29/GRPE/2023/7

The modifications to the current proposal are highlighted in red.

I. Proposal

Paragraph 5.2.3.4., amend to read:

"5.2.3.4. For compression ignition engines and dual-fuel engines:

The fuel used shall be the one available on the market. In any case of dispute, the fuel shall be the reference fuel defined by CEC for compression ignition engines, in CEC document RF-03-A-84.

In the case that testing for emissions of gaseous and particulate pollutants ~~according to UN Regulations Nos. 49 and/or 24~~ is conducted at the same time as testing to this Regulation, at the request of the manufacturer the same fuel for testing emissions of gaseous and particulate pollutants may be used for testing to this Regulation."

Insert a new paragraph 5.2.3.7., to read:

"5.2.3.7. **For positive ignition engines, compression ignition engines and dual-fuel engines fuelled with hydrogen**

The fuel used shall be the one available on the market. In any case of dispute, the fuel shall be the fuel specified in ISO14687:2019 as grade D."

II. Justification

1. The use of test fuels is permitted for certification testing of gaseous and particulate pollutants and power/smoke testing in Europe. However, other countries that have adopted and referenced UN Regulation No. 85 may not allow this. In this case, manufacturers have to prepare and store fuels with different characteristics, which is costly and requires a long time due to the current inconsistent situation.
2. Hydrogen fuelled vehicles are covered in UN Regulation No. 83, but hydrogen is not yet covered in UN Regulation No. 49 and UN Regulation No. 85.
3. Hydrogen fuelled engines could be one complementary option to reduce CO₂ emission of future heavy-duty vehicles
4. Thus, hydrogen fuel should be integrated in UN Regulation No. 49 and UN Regulation No. 85 for better alignment with UN Regulation No. 83.

Note: the change introduced with this informal document is intended to ensure the coherence of wording, because mentioning "gaseous and particulate emissions" is correct for UNR 49, but not for UNR 24, as it is related to "visible pollutants".

The new wording proposed, deleting the part written in red character, should ensure the

coherence.
