

PROPOSAL TO AMEND REGULATION No. 120

APPROVAL OF INTERNAL COMBUSTION ENGINES TO BE INSTALLED IN AGRICULTURAL AND FORESTRY TRACTORS AND IN NON-ROAD MOBILE MACHINERY, WITH REGARD TO THE MEASUREMENT OF THE NET POWER, NET TORQUE AND SPECIFIC FUEL CONSUMPTION

The text reproduced below was prepared by the expert from Italy in order to propose amendments to UNECE Regulation No 120.

A. BACKGROUND

Regulation 120 was adopted in the year 2005 to harmonise the requirements for the approval of engines intended to be used on category T vehicles and non-road mobile machines. This Regulation was developed in order to be harmonised with the requirements of Regulation No. 96 and some European Community directives, mainly Directives 97/68/EC and 2000/25/EC on exhaust emissions from the same engines.

In fact, this Regulation is being used both as a proper engine type approval procedure and as a reference for its harmonised test method and conditions.

B. PROPOSAL

As exhaust emission requirements became more stringent, also the fuel specifications have to be adapted, mainly reducing drastically the sulphur content.

In order to maintain the alignment with the exhaust emissions requirements it is now necessary to update the compression ignition reference fuel specification defining a maximum sulphur content of 0.015 mg / kg.

Moreover, other parameters shall be aligned with the European reference fuel.

The communication of engine/engine family type approval has a redundant indication that needs to be removed (Annex 2, item 11.1.4.)

The Italian expert is ready to submit a formal amendment proposal at the next GRPE session. In this respect, GRPE experts may wish to suggest further amendments they deem necessary for this Regulation.

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