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OTHER BUSINESS

Measuring the effective refrigerating capacity

Transmitted by the secretariat

The secretariat received the following question from the private sector asking for an official interpretation from the Working Party:

“In the case of *refrigerating equipment with a vehicle motor driven compressor*, are the competent authorities allowed to give out official ATP certificates when the refrigerated equipment is only tested at one high speed rotation of the compressor?”

Background information:

ATP, Annex 1, Appendix 2, §56 (b)

“If the compressor is driven by the vehicle engine, the test shall be carried out at both the minimum speed and at the nominal speed of rotation of the compressor as specified by the manufacturer.”

It was noticed that mechanically driven vehicle motor equipment has not been tested at both the minimum speed and the nominal speed of rotation, but only the high (nominal) speed of rotation of the compressor.

Result: Calculating the effectiveness of the unit during transport is not possible now.

ATP, Annex 1, Appendix 2, §60

“A test report of the appropriate type shall be drawn up in accordance with models number 1 to 10 below.”

In one occasion, the choice to test only at high speed of rotation, was defended by saying that it was not necessary to measure the capacities at minimum speed because it was not an obligation to draw up these capacities on the form.

ATP, Annex 1, Appendix 2, Form Model No. 5

Model 5 only asks to draw up one measurement of the effective refrigerating capacity at 0 °C, 1 x at -10 °C and 1 x at -20°C.

No note is made that measurements at both the minimum and nominal speed of rotation have to be drawn up in case the equipment is vehicle motor driven.
