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Working Party on the Transport of Perishable Foodstuffs

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Item 4 (e) of the provisional agenda

Status and implementation of the Agreement on the International Carriage of Perishable Foodstuffs and on the Special Equipment to be Used for such Carriage (ATP):

exchange of good practices for better implementation of ATP

Change of engine to meet new NRMM emission standards

Transmitted by Transfrigoroute International (TI)

I. Context

1. Introduction of new lower emission engines used to drive mechanically refrigerated machines to meet with EU NRMM Regulation 2016/1628 and US EPA regulations currently in force.
2. In the case where the new range of engines is applied to series production mechanically refrigerated machines, where there are no changes to the refrigeration circuit major components and the engine / compressor speeds remain identical that the original type approval certificate for the machine remains valid with an addendum used to note the nomenclature of the new engine type. The same process would also apply to in service equipment in the case of a complete engine failure which would require a replacement with a newer generation engine running at identical speeds. No type approval test is required in either case.

II. State of art

3. Use of Tier V engines to improve air quality.

III. Technical impact of the proposed measure

4. Improved Air quality and bringing temperature controlled transport more in line with vehicle engine emission standards.

IV. Economical impact of the proposed measure

5. Avoid duplication of type approval testing.

V. Environmental impact of the proposed measure

6. Improved air quality due to lower emissions.

VI. Conclusion

7. ATP supports both EU and US environmental legislation without compromising the refrigeration performance of the equipment in question.
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