

## Proposal to amend GRPE/2021/10

This document aims to propose:

- a technically neutral description for the measurement of crankcase pressure in Type III Test.
- the option to test a four-wheel vehicle without being forced to use an artificially created two-wheel drive mode.

The modifications to the current text of the Regulation are marked in bold for new or strikethrough for deleted characters.

### I. Proposal

*Annex 6, paragraph 5.2.;* amend to read:

- "5.2. The pressure in the crankcase shall be measured at an appropriate location. ~~It shall be measured at the dip-stick hole with an inclined tube manometer.~~ **It is recommended to measure the pressure at the dip-stick hole, if feasible.**"

*Annex 8, paragraph 5.2.11.;* amend to read:

- "5.2.11. A four-wheel drive vehicle shall be tested in a two-wheel drive mode of operation. The determination of the total road force for dynamometer setting is performed while operating the vehicle in its primary designed driving mode. **At the request of the manufacturer a four-wheel drive vehicle shall be tested in its primary drive mode of operation.**"

### II. Justification

1. The reference to an inclined-tube manometer for the determination of crankcase pressure in general is not a technically neutral description. Thus, proposal is to delete this reference. Dip-stick hole might be not available for all engine types.
  2. Testing a four-wheel vehicle under Type VI conditions should not be limited to a two-wheel drive mode as it also not required under Type I conditions and a two-wheel mode may not be available.
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