

Proposal for amendments to ECE/TRANS/WP.29/GRPE/2016/7 on Regulation No. 49 (Compression ignition and positive ignition (LPG and CNG) engines)

The text reproduced below was prepared by the expert from the International Organization of Motor Vehicle Manufacturers (OICA) to amend ECE/TRANS/WP.29/GRPE/2016/7. The modifications to ECE/TRANS/WP.29/GRPE/2016/7 are marked in red.

I. Proposal

Annex 9A, paragraphs 2.3.1., amend to read:

"2.3.1. Malfunctioning injectors

As an alternative to the monitor specified in line (d) of the table in item 7 of Appendix 3 to Annex 9B to this Regulation, the manufacturer may opt for compliance with the provisions specified in paragraphs 2.3.1.1. to 2.3.1.2.1. of this Annex."

Annex 9B, Appendix 3, Item 7, amend to read:

"Fuel System monitoring

The OBD system shall monitor the following elements of the fuel system on engines so-equipped for proper operation:

	<i>Diesel</i>	<i>Gas</i>
(a) Fuel system pressure control: fuel system ability to achieve the commanded fuel pressure in closed loop control - performance monitoring.	X	
(b) Fuel system pressure control: fuel system ability to achieve the commanded fuel pressure in closed loop control in the case where the system is so constructed that the pressure can be controlled independently of other parameters - performance monitoring.	X	
(c) Fuel injection timing: fuel system ability to achieve the commanded fuel timing for at least one of the injection events when the engine is equipped with the appropriate sensors - performance monitoring.	X	
(d) Fuel injection quantity: fuel system ability to achieve the commanded fuel quantity by detecting errors from desired fuel quantity in at least one of the injection events when the engine is equipped with the appropriate sensors (e.g. in pre- main- or post-injection) – emission threshold monitoring.	X	

	<i>Diesel</i>	<i>Gas</i>
(e) Fuel injection system: ability to maintain the desired air-fuel ratio (incl. but not limited to self-adaptation features) – performance monitoring.		X

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II. Justification

The added text clarifies the proposal by aligning it with the expressions of "Module B - Annex 3 - Appendix 7 FUEL SYSTEM MONITORING Regional regulation (b)" of UN GTR No. 5.
