Investigation of exhaust emission factors based on vehicle models

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Abstract

Hydrocarbon and Carbon monoxide emissions in passenger cars of Iran's production is very high. This research is trying to technical examination of three vehicle models (Pride, Peugeot 206 and Samand) production of 2004, 2006 and 2008 check out amount of HC and CO emissions. MGT5 device was used to measure exhaust emission factors from this vehicle. The result of this study indicate that Pride and 206 Peugeot production of 2006 and Samand production of 2004 have most pollution in the production of HC. Most CO emissions was in vehicle production of 2004. Samand and Pride have lowest and most emissions, respectively. vehicles manufactured in 2008 is close to Euro IV Standard. However, vehicles manufactured since 2004 are Euro II standard. by increasing vehicle age was observed emissions increase.

Key words: HC and CO emissions, Vehicle, Pride, Samand, Peugeot 206