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Engine combustion

chamber tightness diagnostics

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The modern combustion engines and their systems are getting more complicated and sophisticated nowadays. It is no more possible to verify their function or actual technical state directly. Thus various methods of indirect diagnostics are being developed more and more rapidly. The on-board diagnostics is being increasingly applied to monitor and measure suitable diagnostic signals during operation, deviations from required or expected values are then recorded. This trend requires the application of completely disassembly-free techniques of measurements and the real-time analyzing of measured figures. This paper presents the results of the research on relation between the starter ' s starting current and the engine combustion chamber tightness. The experiments were carried out for common four-cylinder engine.

Keywords:

combustion chamber tightness; instantaneous starting current; compression pressure; on-board diagnostics

[fulltext]