

SOME RESULTS IN THE FIELD OF ENGINE CYLINDER DEACTIVATION

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Abstract

The paper starts from a worldwide area investigation of an interesting way to engine efficiency increase during its small load operation, half cylinders deactivation. Using an 1,4 liter spark ignition engine, four cylinder, in cylinder block camshaft mounted, the authors designed and in-house realized a device able to deactivate intake rocker arms of number 2 and 3 cylinders. The experimental results based on real driving urban conditions shown good confidence over the author's expectation.

Keywords

engine, cylinder deactivation, fuel consumption reduction, actuation device