

A PROPOSAL REGARDING EASILY VARIABLE VALVE TIMING IMPLEMENTATION

Authors

Marcel LUPAȘCU¹, Florin ȘERBAN², Dumitru CRISTEA²

¹TLG Autoservice s.r.l.

²University of Pitești

Abstract

At the present time it is a common understanding regarding the advantages induced by variable valve timing devices in the spark engines area, from many points of view, performances, emissions, efficiency, maniability and noise. The biggest problem to solve seems to be the complexity of the involved technologies, so any simple technological solution has to be carefully studied, considering the balance between overall performances advantages and design complexity.

This paper is a study of a relative simple design solution that permits to investigate the influence of intake section variability over a large scale of engine parameters, without costs investment.

Keywords

Variable valve, spark engines, intake section variability