

Title (en)
ENGINE CONTROL METHOD AND ENGINE CONTROL DEVICE

Title (de)
MOTORSTEUERUNGSVERFAHREN UND MOTORSTEUERUNGSVORRICHTUNG

Title (fr)
PROCÉDÉ ET DISPOSITIF DE COMMANDE DE MOTEUR

Publication
EP 3371436 A1 20180912 (EN)

Application
EP 15791577 A 20151105

Priority
EP 2015075793 W 20151105

Abstract (en)
[origin: WO2017076450A1] The present invention relates to an engine control method to be used for detecting misfire in an internal combustion engine having at least one pressure sensor for in-cylinder pressure detection, and an electronic control unit, wherein the method comprises the following steps: i) detecting an in-cylinder pressure, ii) determining an engine crank position, iii) calculating temperature index based on measured in-cylinder pressure and a cylinder volume as a function of measured engine position via the ideal gas law by the electronic control unit; and iv) determining from calculated temperature index within the current expansion stroke of the internal combustion engine whether or not a combustion event takes place in the current expansion stroke.

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