

Karakteristik Efisiensi Pembakaran Mesin Otto Berbahan Bakar Solar

Combustion Efficiency Characteristic of Diesel Fueled Otto Engine

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ABSTRACT

The aim of this reserch is to make a hybrid engine that can use both gasoline and diesel fuel. The characteristic of engine combustion will be the main issue that the research will do. Experimental method will be use during this research. The research will be be place at State Polytechnic of Jember during 8th June – 23rd December 2016. The experiment will be focus on exhaust gasses pecentage for futhermore calculate the combustion efficiency charachteristic. Exhaust gasses percentage will be count by using a T156D Didacta Italia Gas Analyzer. The result show that diesel fuel can be used on Otto engine. At 2.000 rpm, AFR from this research is 5,5:1, excess air coefficient 0,37 and 52% for combustion efficiency. At 8.000 rpm, AFR is 5,45:1, excess air coefficient 0,36 and 40% for combustion efficiency.

Keywords: *combustion, diesel fuel, efficiency, Otto engine.*