

**Analisa Penggunaan Bahan Bakar LPG Terhadap Konsumsi Bahan Bakar
Dengan Perlakuan Medan Magnet Pada Mesin Sepeda Motor Injeksi**
*(Analysis of the Use of LPG Fuel on Fuel Consumption by Magnetic Field
Treatment in Injection Motorcycle Engines)*. Pembimbing
(Ahmad Robiul Awal Udin, ST, MT)

Ach Affan Awaluddin
Study Program of Automotive Engineering
Majoring of Engineering
Program Studi Mesin Otomotif
Jurusan Teknik

ABSTRACT

The increase in the need for fuel oil is something that cannot be avoided and will continue to occur due to the large population and the increasing number of vehicles, while the supply of fuel oil is increasingly depleting. LPG is one of the right solutions to overcome this problem. With the abundance of LPG gas in Indonesia, LPG fuel becomes one of the alternative fuels from oil fuel. This is because LPG is easily available at an affordable price and is free of air pollution. The purpose of this study was to analyze the use of Pertamina and LPG fuels with the addition of a magnetic field to fuel consumption in injection motorcycle engines. This type of research uses experimental research. The object of this research is the consumption of fuel used in a certain time. The results of the research obtained by the researcher are that the converter kits are installed in free air. The result of the consumption rate of Pertamina fuel and LPG which is the fastest to run out occurs in LPG fuel. The results of the testing of the level of fuel consumption with the addition of a magnetic field decreased in both fuels, with Pertamina increasing economically by 0.08 ml / s at 2000 RPM and LPG by 0.09 ml / s at 2000 RPM, it was due to the molecular content the smaller the fuel that passes through the magnetic field so that the fuel will burn more easily.

Keywords: LPG, magnetic field, fuel consumption