ABSTRAKSI

Penelitian ini bertujuan untuk mengetahui konsumsi bahan bakar dengan varian putaran mesin yang berbeda. Alat uji prestasi yang digunakan sebagai media uji pada penelitian ini menggunakan mesin mobil Mitsubishi L300 berbahan bakar solar dengan tipe *engine* 4D56. Dengan varian putaran mesin pada putaran 700 rpm, 1000 rpm, 1500 rpm, 2000 rpm, dan 2800 rpm. Dari hasil pengujian di dapat bahwa putaran 700 rpm laju konsumsi bahan bakar (Fc) dihasilkan 1,1 Ltr/jam. Hasil pengujian di dapat bahwa putaran 1000 rpm laju konsumsi bahan bakar (Fc) dihasilkan 2,7 Leter/jam. Hasil pengujian di dapat bahwa putaran 1500 rpm laju konsumsi bahan bakar (Fc) dihasilkan 3,6 Liter/jam. Hasil pengujian di dapat bahwa putaran 2000 rpm laju konsumsi bahan bakar (Fc) dihasilkan 5,6 Liter/jam. Hasil pengujian di dapat bahwa putaran 2800 rpm laju konsumsi bahan bakar (Fc) dihasilkan 10 Liter/jamWaktu pengujian masing - masing varian putaran dengan waktu 45 detik.

Kata kunci : Mesin Diesel, Laju bahan bakar, RPM, Bahan bakar.

ANALYSIS COMPARISON OF TRANSMISSION LEVEL 1-5 ON RPM AND FUEL CONSUMPTION PERFORMANCE USING TEST TOOL

ABSTRACT

This study aims to determine the fuel consumption with different engine speed variants. Performance test equipment used as a test medium in this study uses a Mitsubishi L300 diesel engine with a 4D56 engine type. With engine speed variants at 700 rpm, 1000 rpm, 1500 rpm, 2000 rpm and 2800 rpm. From the test results it can be found that the 700 rpm rotation rate of fuel consumption (Fc) generated 1.1 Ltr / hour. The test results can be that the 1000 rpm rotation rate of fuel consumption (Fc) produced 2.7 liters / hour. The test results obtained that the 1500 rpm rotation rate of fuel consumption (Fc) generated 3.6 Liters / hour. The test results obtained that the 2000 rpm rotation rate of fuel consumption (Fc) generated 5.6 Liters / hour. The test results can be that 2800 rpm rotation rate of fuel consumption (Fc) generated 10 Liters/ hour Time of testing each variant of the rotation with a time of 45 seconds.

Keywords: *Diesel engine, fuel rate, RPM, fuel*