ANALISA UJI PERFORMA MOTOR INJEKSI 150 CC DENGAN PENAMBAHAN BLOWER ELEKTRIK

(Performance Test Analysis On Injection Motor 150 cc With Electrik Blower)

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ABSTRACT

The purpose of this research is to design an electric blower to re-create air pressure entering the combustion chamber. With the addition of an electric blower on a 150 cc injection motor, power, torque & fuel consumption will be analyzed, so that it will be a comparison between a standard motor and a motor with the addition of an electric blower. The experimental method will be applied for this research. This trial is focused on increasing torque, power & specific fuel consumption. The results of his research are that the addition of an electric blower will increase power, torque & fuel consumption to be more efficient. Air discharge into the combustion chamber is a variation in this study. The maximum power released is 12.17 HP at 9248 rpm at a variation of 0.015 m^3s discharge, the maximum torque output is 9.82 Nm at 3210 rpm at a variation of 0.008 m^3s, and by adding an electric blower the sfc value increases. In other words more wasteful than the standard.

Key words: Blower Elektrik, Motor Injeksi, Daya, Torsi, *Spesific fuel consumption*