Analisi Pengaruh Variasi Sudu Axial Fan Terhadap Efektivitas Sistem Pendingin Radiator (Analysis Of The Effect On The Axial Fan Effectiviness Of Radiator Cooling System) Pembimbing (Ahmad Robiul Awal Udin, S.T. M.T)

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ABSTRACT

In the otto engine, the combustion process in the combustion chamber causes the increase of engine temperature, some of the engine heat is discharged to the outside (environment) through the exhaust and some is spread throughout the engine. One of the engine components that plays a very important role in maintaining the condition of the engine at working temperature is the radiator (heat exchanger). Radiator is a tool to change the temperature of a fluid by exchanging the heat of that fluid with other fluids. The purpose of this study was to analyze the effect of variations in the number of blades axial fan on the effectiveness of the radiator cooling system. The method of this research used an experimental method, specifically by testing several variations of the axial fan blades. The result from this study was that the addition of the number of radiator fan blades was able to increase the effectiveness of the cooling system and From the variation of 10,11,12 the number of radiator blades variations that had The highest effectiveness was the variation in the number of 10 blades.