Uji Performa Mesin Diesel 4 Langkah Terhadap Campuran Bahan Bakar Biodiesel Limbah Minyak Ikan Dengan Bahan Bakar Dexlite (4-*Step Diesel Machine Performance Test On The Mixing Of Biodiesel Fuel Waste Fish With Dexlite Fuel*). Pembimbing (Ahmad Robiul Awal Udin, ST, MT)

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ABSTRACT

The increasing need for fuel oil is something that can't be avoided and will continue to increase. This is offset by the growing population, but the need for fuel to produce is increasingly limited. Biodiesel is one of the right solutions to overcome this problem, which is known as a maritime country, which partly produces it from the ocean. With a wide variety of fish. This can be used as a potential for Indonesia to process marine products as a source of biodiesel energy from raw fish waste which is no longer used as a source of solar power. The purpose of this research is to analyze the effect of a mixture of dexlite fuel with fish waste oil biodiesel which will be tested on a 4 stroke engine on torque and power. This type of research uses experimental research. The object of this research focuses on the torque and power generated by mixing dexlite fuel and biodiesel fish waste oil. The results of the torque and power research show that the large torque results occur at 1500 rpm using B10 fuel with a value of 0.1146 Nm, while for power at 2500 rpm it is the maximum result with a value of 0.238 Kw with a mixture of B20 and B30 fuels.

Keyword: biodiesel fish waste oil, torque and power