

***EXPERIMENTAL STUDY OF THE EFFECT OF FLYWHEEL
WEIGHT IN DONGFENG DIESEL TYPE R175A ON FUEL
CONSUMPTION AND MACHINE PERFORMANCE***

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ABSTRACT

The dependence of the community in general both for fishermen's transportation needs and for lighting for households to fuel oil is very high, besides that, the scarcity of fuel oil and the relatively high price of oil also cloud the economy of the community, especially those of the lower class. This study aims to improve engine performance and reduce fuel users on the Dongfeng engine. In this study, a variation of flywheel users with a weight of 15kg, 30kg, 35kg will be carried out. This research was applied to the dongfeng engine type R175A 7HP at the Bengkalis State Polytechnic Fuel Motor Lab, the test results showed that the 30 kg flywheel produced a better value which was seen from the engine performance, the optimal performance of the fuel used was not too much and the house electricity was stable. for use it is recommended to use a 30 kg flywheel.

Keywords: flywheel, dongfeng engine