OPTIMIZATION OF SLOPE PROPELLER SHAFT AGAINTS THRUST FIBERGLASS FISHING 3 GT

Nama : Zulkarnaen

Nim : 1304201034

Dosen Pembimbing : Edy Haryanto, ST., MT

ABSTRACT

Bengkalis is a island region in Indonesia. Where the majority of its societies work as fishermen, there is an abundance of kinds of bendy fishing boats, usually inside boats equipped with engine, gear box, shaft and propeller. The installation of shaft propeller as well the tilt position should provide optimal thrust, but not much of the small shipments or shipbuilding machines that discussed things like this, So the author contrades the metter of the ship of a propeller shaft on the driving of the ship to review the performance of the ship while at sea. Analisis of the ship movement is done by using Computational Fluid Dynamic (CFD). By comparing some angles of ship propeller shaft on fiberglass 3 GT ranging from 4.7°, 5.7°, 6.7°, 7.7°. From the test results using the method in the most optimal results in determining the slope of the propeller shaft slope is 5.7° with the value of thrust produced by 154,133 N and the torque value of 1,568 N/M.

Keyword– fiberglass ship 3GT, slope of propeller shaft, thrust of ship