ANALYSIS OF STERN FLAP ADDITION EFFECT ON THE PLANNING HULL SHIP IN EFFORT TO REDUCE SHIP RESISTANCE

Nama Mahasiswa : M. Novan H.A
NRP : 4206 100 040
Jurusan : Marine Engineering
Dosen Pembimbing : 1. Irfan Syarif Arief ST, MT.
2. Edi Jatmiko ST, MT.

Abstract

Fuel consumption will not escape from the world of shipping. And while the current energy crisis, the need for an innovation or a business that needs to be developed. Therefore, in the study "Analysis Of Stern Flap Addition Effect On The Planning Hull Ship In Effort To Reduce Ship Resistance". Researchers attempted to conduct a scientific study on adding a stern flap is said can be impact to reducing resistance on the ship, expected to reduce using of fuel so it can be one of innovation in an effort to combat global warming. From the results of the analysis has been done shows with the addition of stern flap can reduce the amount of resistance in planning hull ship. Result most stern flap obtained on a model with long chord 2.5%LPP, 100% B, and flap angle 0°. Results of analysis showed the greatest reduction of 2.70% at a speed of 30 knots, and the average reduction of 2.40%.

Keyword : energy crisis, stern flap, resistance, planning hull.