FLOW ANALYSIS IN FRONT PROPELLER OF NOZZLE RING EFFECT

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Abstract

In the maritime world that we know the function of ducting is to reduce the pressure forces on the hull. Duct-shaped bracelet which has the shape of aerofoil cross section. So that the flow of fluid through a more focused way. And based on the function of the blade Nozzle Ring on Turbocharge diesel engine that works to change the air flow rate into the acceleration of the airflow. So that air flow has become more power. To perform this study we use the analysis using software. In the future we will draw a software model of the research that we will do. Once the image of our research is completed and then we perform an analysis of the image we created earlier. Analysis we do is look at the effect of the addition of the ducted propeller blade. After the analysis concludes, we compare the results of our analysis in the graph. The results of such analysis is the more we add to the blade so that we can speed the flow increases, the greater the angle the blade cavitation occurring will increase, the greater the angle the blade so the flow rate will also rise.

Keyword : Propeller, duct, Nozzle ring, Flow velocity