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THE IMPORTANCE OF MEASURING THE PERFORMANCE OF THE MAIN NAVAL ENGINE AND PRACTICAL MEASUREMENT METHODS

Today, the primary source of propeller power is the diesel engine, and the power requirement and rate of revolution very much depend on the ship's hull form and the propeller design. Therefore, in order to arrive at a solution that is as optimal as possible, some general knowledge is essential as to the principal ship and diesel engine parameters that influence the propulsion system. The efficiency of any machinery on board ship is directly related to its performance. In order to get the best out of marine engines, it is very important to monitor their performances and take measures to achieve an efficient combustion. The paper aims the importance of measuring the performance of the main engine and practical measurement methods using the NHX program. NH-X device measures the cylinder internal pressure by utilization of the pulse signal from Top Dead Center(TDC) of No1 cylinder. Also, the program analyzes the afterburning period at combustion stroke of each cylinder.

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