DEVELOPMENT OF MAINTENANCE MANAGEMENT INFORMATION DATABASE FOR SHIP MAIN ENGINE

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Abstract Main engine is used as a prime mover when ship sailing. In recent day diesel engine is commonly used as main engine in merchant ships. The reason is because diesel engine still has economic advantages comparing to other type of engine. As one of valuable assets, maintenance of diesel engine must be done as well as possible. This is to maintain the performance of main engine used. Maintenance of main engine usually refers to the guidelines given by manufacturer. Currently, conventional maintenance with written information is still used by most of shipping companies. To facilitate planning, that information could be made as computerized database. This will reduces resources committed to make a maintenance plan. In this Final Project developed a computerized database for components and systems of MaK diesel engine Type M551/552. Various information contained in engine operating manual developed into database using Ms Access™ and Ms Visual Studio™. From the results of the development created a software-based Visual Basic.Net. Having been made in the integrated database, information retrieval becomes faster, thereby reducing the resources required. In addition the software developed also minimizes human error in the making of maintenance plan.

Keyword: database, maintenance management, ship main
engine, diesel engine