

## ABSTRACT

**Ongki Bagus Sadewa**, 2018, 50135035. T, "*Analysis of Cause Occurrence of Cylinder Liner Main Engine In MT. Menggala* ", Thesis Teknika Study Program, Diploma IV Program, Semarang Merchant Marine Polytechnic ,Supervisor I: Dwi Prasetyo, M.M, M.M..E, and Supervisor II: Poernomo Dwi Atmojo, MH

A diesel engine is an internal combustion engine in which air is compressed to a sufficiently high temperature to ignite diesel fuel injected into the cylinder. Cylindrical liner is part of diesel engine that serves as a place of combustion process that produces power / effort with high air and temperature utilization simultaneously with spraying of fuel. The breaking of the cylinder liner of the main engine may affect the operation of the diesel engine

Research method that writer use in preparation of this thesis is descriptive qualitatif research method. In this case the author uses the SWOT method as a data analysis technique to analyze what factors cause cracks in the cylinder liner main engine and what efforts are made to overcome these factors by identifying strengths (strenghts), weaknesses (weaknesses), opportunities (opportunities), and threats (threats) from the environment systematically to formulate the strategy to be taken.

Based on the results of research that has been done the author, it can be concluded that the cracking cylinder liner caused by two factors, namely 1) Cooling is not good. less optimal water cooling pump, leakage of the cooling system and damage by pass valve / thermostat, 2) The quality of spare parts is not standard. To overcome these factors that can be done is, repair of damaged machine parts, replacement, maintenance, and the selection of spare parts that fit the standards.

**Keywords:** Cylinder liner, SWOT, Rift