

ABSTRAK

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Crankshaft is used to transform vertical movement or horizontal from piston become rotating movement (rotation). To transform it, with the proses of crankshaft need crankpin, an additional bearing to be attached on the end of connecting rod on each cylinder. The purpose of this essay is for knowing the causes of crack on the diesel generator’s crankshaft, for knowing effects of crack on the diesel generator’s crankshaft, and for knowing how to fix the problem of crack on the diesel generator’s crankshaft.

This research is using qualitative descriptive method and using data anlysis technique Strengths, Weaknesses, Opportunities, and Threats (SWOT) is systematic identification of various factors to formulate strategy. Data collection is done by interview, questionnaire, observation, documentation, by observing at the overhaul time on MT. Nariva.

The result of research shows that factors of crack on diesel generator’s crankshaft caused by the drop of lubricating oil pressure, and presence of metal particles in the lubricating oil, also effects that happened on the crack of crankshaft is existence of rough vibration on diesel generator, high vibration that caused by connecting rod, and worn out of main bearing, and this will be a problem for operation of the vessel. Treatment that can be done in order to prevent crack on crankshaft is by maintaining the pressure of lubricating oil, maintenance of lubricating oil and viscosity, clean the filters of lubricating oil, maintain lubricating oil cooler not to leak off on sea water side and lubricating oil, also maintenance on the crankshaft referring to instruction manual book on board the ship.

Keywords : Lubrication, crankshaft, SWOT