Analysis of The Propeller Shaft Alignment

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ABSTRACT

Shaft alignment is to be considered. Adjustment of the engine and propeller shaft are very important in the manufacture and maintenance of marine vessels, where the pressure and vibrations created by the rotating shaft parallel will not only cause damage to the engine shaft unit itself, but also can cause damage to the struts and the stomach, leading to leaking and drowning can occur.

Shaft alignment is definitely made for each ship, both ships in a state of semi-finished or ship docking. The shaft alignment is the absence of special rules in the standard classification. However, if the review of the arrangement based on their classification can be achieved then the alignment process.

Alignment checks on propeller shaft can be done by performing measurements on the shaft by using a dial indicator to determine the deflection that occurs in the shaft. By knowing the deflection records and bearing condition can be determined what actions to take to repair the shaft. Based on the procedures & rules checks can be known to the shaft is still proper to use or not to know the minimum diameter of the shaft or its bearings, for shaft diameter of more than a minimum diameter of the rules klasnya the propeller shaft can still be used to ship.

Keywords: shaft alignment, docking, classification, dial indicator, deflection, bearing, bearings