

NAVAL PROPELLERS RECONDITIONING BY FRICTION STIR WELDING - FSW

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ABSTRACT

The naval propeller is subjected to high cycling fatigue loadings and shocks. Besides, working in corrosive medium, cracks and, finally, fractures could be developed in different regions of the propeller. Because the zones of the propeller don't work in similar conditions, the damage is not the same in all regions.

The paper presents considerations about alloys for naval propellers, working conditions, wear and failure, reconditioning and testing of the naval propellers.

KEYWORDS: naval propellers, reconditioning, FSW

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