

Pamir + Panat propellers

Submit Surveyors be informed that the stresses on these propellers have been evaluated by a method of calculation adopted as standard by marine industry in the UK & have been found, for the old & new designs respectively, to be ^{about} four times & twice that considered by British practice to be a safe working stress. While LR have no rules for propeller scantlings it is recommended in view of the service failures that the propeller be redesigned to give at the blade critical section a working stress of about $\frac{1}{4}$ of the stress in the original design. ~~It has been~~ assumed that material of the propeller is Manganese Bronze of high quality & strength. ~~see overlay~~



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It should be noted that the calculations for
shin were based on the following assumptions
~~on the basis of~~ ^{from TROOST curves} It would seem that the
propeller is only capable of absorbing 610 BHP
at 350 RPM.

- ① Material ~~is~~ manganese Bronze of rule strength
- ② Ship Speed — 7 knots

wire Dunsldorf as follows:

REMARKET 20TH MAY

Pamir Parat new propeller design ^{not} gives satisfactory
~~since~~ working shires about twice British practice
better following ^{not} considered satisfactory STOP

Sms



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