

Motor Ship "BENJAMIN FRANKLIN".

This vessel is a twin screw motor ship, and was built in 1927. In 1935 trouble, stated to be due to heavy weather, was experienced with the engine seatings. The bed plates were also found cracked. Temporary repairs were effected.

In August 1936 it was found that the cracks in the bed plates had extended, and that further riveting trouble in the seatings had developed.

It has now been decided to lift the engines, renew the bed plates and reinforce the seatings, and the Oslo Surveyors forward a plan, in triplicate, shewing the proposed alterations.

The plan of the seating as originally built has been examined, and it is found that the scantlings and arrangements are in accordance with the practice of the Committee at that time. Since then, however, experience has shewn the desirability of providing additional riveting to the top plates of such seatings by increasing the breadth of the same and also by providing additional transverse support in the form of cross ties, particularly as in this case the seatings are unusually high. The reinforcement shewn on the plan now submitted is in this direction, but it is thought that the proposals could be somewhat modified with advantage.

It is therefore submitted the Surveyors be informed that the proposals submitted have been carefully examined, together with the reports dealing with the damage sustained to the seatings, and it is considered that, particularly in view of the height of the seatings, ²⁰ ~~welded~~ plate cross ties should be fitted, instead of the channel ties, on frames 70, 76 & 83, in ^{similar} addition to the existing ties on frames 73 & 80. If necessary, large holes could be cut in the plates for the passage of pipes. Further, it is considered that the overhung top plates which are to be fitted of increased breadth should be supported at each frame by a small bracket attached to the existing atwartship brackets.

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The plan has been amended on these lines, and the
Surveyors might discuss the same with the Owners' Representative.

Dr. 26.10.36
Amtd. 30.10.36
2 plans 1 retained.

W. S. G.

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30. 10. 36.



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