

W432-0265

Proposed alterations to vessels owned by Messrs. T. & J. Brocklebank, Ltd.

It is submitted Messrs. A. Goodwin-Hamilton & Adamson Ltd. be informed that so far as the hull is concerned, the proposal to shorten the length of the vessel by the amount indicated in their letter would mean that, other things being equal, the structural strength of the vessel would be increased. The proportions of Length to Depth in that case would be more moderate, and the scantlings of the principal parts of the structure would be in excess of that required by the Rules for a length of 470 feet.

With regard to the alterations proposed to be made at the after end, they might be informed that experimental research, so far as it has gone, seems to shew that the fitting of a fin in front of the rudder will result in an increased propulsive efficiency, and that the fitting of this fin or any form of stream line rudder would not, of itself, impose any sensible increase of stress <sup>on</sup> of the rudder post and stern frame or the attachments at the top and bottom. It is to be noted, however, that the fitting of a fin will increase that area of the rudder post which is exposed to shock, and it is assumed that proper arrangements will be made for the attachment of this fin to the rudder post and to the structure generally.

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