

s.s. "HERON" - No. 63893 in Register Book.

Dimensions : 245' x 39' x 17' to 2nd deck.
24.75' to bridge deck.

This vessel was built in 1920 by the Ailsa Shipbuilding Co. and is classed 100A1 "Shelter Deck with Freeboard".

The Glasgow Surveyors report that it is proposed to close in the tonnage opening and obtain an increased draught of 19'3" moulded.

The alterations will be carried out by the Grangemouth Dockyard Co., who desire to be informed of the additions, if any, which will be required.

The proposed draught is intermediate between that of a full scantling flush deck ship and a complete superstructure vessel. The scantlings have been examined, and it is found that in several respects they are in excess of the requirements of the present Rules, for example, two continuous steel decks are fitted, instead of stringers and ties, and the thickness of the shell plating is considerably in excess of the tabular requirements. The frames, where no lower deck is fitted, are, however, not equal to the requirements of the Rules for the increased draught, but an additional bulkhead is fitted forward, and, provided a web frame, or equivalent, be fitted in the after hold it is considered that the framing could be accepted. The scantlings of the bridge are also somewhat deficient, but in view of the excess of longitudinal strength provided by the additional steel decks, and the excess thickness of the shell plating, it is considered that no exception need be taken to the scantlings of the bridge as fitted.

The equipment will not be affected by the alteration in draught.

No forecastle is provided, but it is considered that this need not be required, having in view the increased sheer

forward, and the fact that the draught desired is less than that of a full scantling vessel.

It is therefore submitted the Surveyors be informed that the scantlings and arrangements have been examined, and it is found that provided a web frame, or equivalent, be fitted at about the middle of the length of the after hold, they are such as could be approved for a freeboard corresponding to a summer moulded draught of 19'3".

The equipment will not be affected.

It will be necessary for the bulkheads at the ends of the machinery space to be extended to the weather deck, and the scantlings reinforced, so as to be ~~equal to~~ ^{Suitable for} this increased height. Alternatively, if desired by the Owners, the existing arrangement of bulkheads could be approved, provided a suitable notation regarding the omission of the tween deck bulkheads be made in the Register Book.

16.6.33

J.M.M.

Ltr. 14/6. Ansd. 16/6

Scantling sheet returned
to gls. 1/9/33



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