

COPY.

LLOYD'S REGISTER OF BRITISH & FOREIGN SHIPPING.

13 $\frac{1}{2}$, Regent Quay,

ABERDEEN, 28th May, 1913.

5 Enclosures

The Secretary,

Sir,

In connection with the case of the steamer "ARMIDA" recently purchased by Messrs. De Chanaud & Cyof Havre, and at present undergoing alterations at this port, to fit her for the carrying of frozen meat to Havre, as stated in my letter of the 8th of March last, I now beg to forward for the approval of the Committee, a plan of the Main and Quarter Decks in way of Nos. 1, 3 and 4 holds, showing scantlings of beams, and the additional girders, and pillars proposed to be fitted for strengthening those decks as it is intended to carry chilled beef, suspended from the beams. The plan in question also shows the fitting of a 'tween Deck in way of Nos. 1, 3 and 4 holds, with the additional beams carlings and tie plates, carrying a 6" x 2 $\frac{1}{2}$ " P P wood deck laid thereon, and caulked.

In the way of Nos. 3 & 4 hatchways broad tie plates are to be fitted for supporting the wooden insulated trunks leading to the lower holds, where coal or general cargo will be carried, and where the insulation will be fitted on the under side of the 'tween Decks.

A sketch is also enclosed showing the proposed insulation of the 'tween Decks, and lower fore hold, by means of granulated

ABV52-0143 $\frac{1}{2}$

COPY.

cork, paper and wood linings.

The freezing machine proposed to be fitted in this vessel is one made by the Liverpool Refrigeration Cy.Ltd., in 1902, and originally fitted in the steamer "OAKWOOD" belonging to Messrs.J.I.Jacobs & Cy., and put ashore in 1909, and consisting of one Duplex machine on Ammonia System; Ammonia Compression Type: Brine Circulation, and an Ice melting Capacity of 20 tons, per 24 hours: the fore insulated chambers will have a collective capacity of 25,000 cubic feet.

With regard to the statement contained in my letter of the 8th and your reply thereto of the 11th of March last, respecting the new boilers, proposed to be fitted in this vessel, I have to inform you that of the two boilers mentioned as belonging to the wrecked Steamer "TADORNA", only one was salvaged, and brought to this port, where after being cleaned, a thorough examination was made, and the boiler with the exception of the shell, was found in excellent condition.

The shell was found to be slightly indented as shown on accompanying sketch of boiler, but not to a serious extent; the rivets in the front shell seam, in line with these indentations were drilled out, and renewed (50 in all) and shell landing in way of same recaulked, and the boiler was subsequently tested by hydraulic pressure, and found tight and satisfactory. The results of the gauging of the various indentations under pressure by means of a mould, cut to the original sweep of the boiler shell, are given on the sketch already referred to, and in view of this

COPY.

test, it is respectfully submitted that the boiler may safely be worked at the original pressure of 160 lbs per sq inch, as particularly desired by the Owners, in view of the tripling of the main engines.

I may add that a new boiler to pair with the above is in process of construction by the North Eastern Marine Engineering Co., of Sunderland.

Reverting to the question of the refrigerating machinery I am requested to state that the Owners desire same to be certified by the Society, and a Refrigerating Machinery Certificate issued, and the plant already referred to is now being taken to pieces and thoroughly overhauled at this port, by the employees of the original makers to whose works at Warrington the Condenser and evaporator Coils have been sent for repair and testing and by whom the Spare Gear required by the Society's Rules will be completed.

In conclusion I am authorised to state in confidence that the purchase and fitting out of this vessel is an experimental venture in connection with the raising of cattle in Gambia, West Africa, which if successful will be followed by the building of a larger and full powered steamer.

I am, Sir,

Your obedient Servant,

(Signed) Ridley Fowell.

P.S. Plans of Midship Section, and Profile enclosed for reference.



Lloyd's Register
Foundation

ABN32-0193 1/3