

Report of Survey

Writing Report *Nov. 4th 1919*
 Survey held at *Liverpool*
 on the Machinery of the *Wood, Iron or Steel*
 { Gross *209*
 Net *84*
 Engines made at *Northwich*
 Boilers, when made (Main) *"*
 Owners *Manchester, Lpool & N. Wales*
 Surveyed Afloat or in Dry Dock *blair*
 (State name of Dock.)
 Main Boilers *1*
 Donkey Boilers *None*
 Pressure *125*
 Main Boilers *125*
 Donkey Boilers *✓*

Report No. Port

Particulars of Examination and Repairs (if any) *L.M.*

General Surveys, when held, must be reported in detail and serially in the terms of the Rules. State of Repairs, if any, and, in detail, the nature and extent of Examinations and subsequent Repairs. If of Damage (the cause of which must be stated) should be separated from Repairs due to other causes being detailed in the body of the report, should be briefly summarised at the end of the report. State and initials of any letters respecting this case.

Damage cases where the Surveyor has not made a special damage report he is required to state whether

lined? *✓* Was a damage report made by anyone else? If so, by whom? *Yes*

Surveyor personally go inside each Main Boiler separately and make a thorough examination at this time? *Yes*

" Donkey " " " " "

Was not done, state for what reasons? *✓*

At parts of the Boilers could not be thus thoroughly examined? *✓*

At special means, in the absence of internal examination, were adopted by the Surveyor to assure himself of the thorough efficiency of those parts of each Boiler? *Yes*

Surveyor examine the Safety Valves of the Main Boiler? *Yes*

To what pressure were they afterwards adjusted under steam? *125 lbs*

Surveyor examine the Safety Valves of Donkey Boiler? *✓*

To what pressure were they afterwards adjusted under steam? *✓*

Surveyor examine all the manholes, doors and their fastenings of the Main Boilers? *Yes*

and of the Donkey Boiler? *✓*

Surveyor examine the drain plugs of the Main Boilers? *None*

and of the Donkey Boiler? *✓*

Surveyor examine all the mountings of the Main Boilers? *Yes*

and of the Donkey Boiler? *✓*

Screw shaft now been drawn and examined? *Yes*

Is it fitted with continuous liner? *Yes*

or two liners? *✓* or is it without liners? *✓*

Shaft now been changed? *No*

If so, state reasons *✓*

Shaft now fitted new? *No*

Has it a continuous liner? *✓*

or two liners? *✓*

or is it without liners? *✓*

Distance between lignum vitae of stern bush and top of after bearing of screw shaft? *Re wooded*

Survey is not complete state what arrangements have been made for its completion and what remains to be done? *Complete*

Vessel placed in Dry Dock. Examined propeller, sea cocks, stern bush & outside fastenings & found in order.

Screw Shaft drawn in, examined & found in efficient Condition. Stern bush rewooded.

Examined by liners, pistons & slide valves; crank, thrust & tunnel shafting; pumps, condensers, & their connections & found all in fair Condition.

The following repairs were effected: - Bilge & circulating pump rods renewed; Bilge pump valve seats & feed pump delivery valve seat renewed; Bilge & circulating pump buckets; L.P. Valve spindle renewed; new screws fitted to Thrust shoes.

Engine opened up, examined throughout & the following repairs effected: - The machinery of this vessel,

Observations, Opinion, and Recommendation: - The machinery of this vessel, as shown, is in efficient condition, eligible in our opinion to be classed, with fresh record of *L.M.C. 10,19 & T.S. 10,19*.

200

Fees applied for

Received by me

MACHINERY CERTIFICATE WRITTEN

Engineer Surveyor to Lloyd's Register of Shipping.

L.R.

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