

Report of Survey for Repairs, &c., of Engines and Boilers.

(Received at London Office **FRI. 11 AUG 1899**)

Date of writing Report *15th Aug 99* When handed in at Local Office *15th Aug 99* Port of *London*
 No. in Reg. Book. Survey held at *London* Date, First Survey *17th July* Last Survey *3rd Aug 1899*
 204 on the Machinery of the *Wood, Iron or Steel* *S. S. Harwarden Castle* Master *Rigby*
 Tonnage { Gross *380* Net *255.6* Vessel built at *Glasgow* By whom *J. Elder & Co.* When *1883*
 Registered Horse Power *83 1/2* Engines made at *"* When *83* Boilers, when made (Main) *91* (Donkey) *91*
 No. of Main Boilers *1* Owners *D. Currie & Co.* Port *London* Voyage *Cape Iron*
 No. of Donkey Boilers *1*
 Steam Pressure in Main Boilers *165 lb* If Surveyed Afloat or in Dry Dock *afloat in London* Particulars of Classification (which must be inserted precisely as in Register Book & Supplements)
 in Donkey Boilers *80 lb* *L. U. C. + 100 A. 5. 99*

Last Survey No. *1* Port *London*

Particulars of Examination and Repairs (if any) *L. U. C. + 100 A. 5. 99*

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

Did the Surveyor personally go inside each Main Boiler separately and make a thorough examination at this time?
 Do. " Donkey " " " " *yes.*
 If this was not done, state for what reasons? *yes.*

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

Also what 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? *✓*

Did the Surveyor examine the Safety Valves of the Main Boiler? *yes.* To what pressure were they afterwards adjusted under steam? *165 lbs.*

Did the Surveyor examine the Safety Valves of Donkey Boiler? *yes.* To what pressure were they afterwards adjusted under steam? *80 lb*

Has the propeller shaft been drawn and examined at this time? *yes.* If spare propeller shaft fitted, state whether new? *✓*

State the distance between lignum vitae of stern bush and top of after bearing of screw shaft? *new wood.*

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

Now done: - Cylinders, Pistons, Slide Valves, Pumps and Condenser examined. Tail shaft drawn in and with Crank Thrust & Immel shafting examined. Propeller sea cocks & Stern bush examined. Repairs: - New wood fitted in Stern-bush. Main Boilers examined throughout and how found to be in good condition. Donkey Boiler examined. Two crown stays found weakened to some extent by corrosion. Furnace plating slightly pitted by corrosion. Test holes now drilled in latter show satisfactory thickness. Repairs to Donkey Boiler: - Two new stays fitted in Steam Space.

General Observations, Opinion, and Recommendation:—

(State clearly what alteration, if any, is suggested to be made in the existing classification of the vessel's machinery in the Register Book, consequent upon this survey, and also any alteration required to be made in the records of the vessel's machinery, boilers, working pressures, &c.: thus, for example, B.S. 9,97, B.&M.S. 9,97 or L.M.C. 9,97, 140 lb, F.D., &c.)
The machinery of this vessel is in good order and in my opinion eligible to remain as classed with fresh record of + L. U. C. 8. 99.

Office or Registration Fee (per Sec. 27) £ : :
 Survey Fee (per Section 28) £ 5. 10
 less 10% £ 11.
 Special Damage Fee (per Section 28) £ : :
 Travelling Expenses (if chargeable) £ 4. 19.
 Fees applied for *11/8 1899*
 Received by me, *J. Ritchie*
31.8 1899

Engineer Surveyor to Lloyd's Register of British and Foreign Shipping.
J. Ritchie

Committee's Minute **TUES. 15 AUG 1899**
 Assigned *+ L. M. C. 8. 99*
FRI. 27 OCT 1899
TUES. OCT 22 1901
TUES. JUL 16 1901
TUES. 11 SEP 1900

MACHINERY CERTIFICATE WRITTEN. *24/9/02*
 Lloyd's Register Foundation
 Lon 719 - 0115

If so, is the Report sent now, or when will it be sent?

Insert Character of Ship and Machinery precisely as in the Register Book.

*Certificate to be sent to

Screw shaft examined, stern bush
reworked

N.B.—If this Report is copied by Copying Press, especial care must be taken that the copying paper is not so much damped as to spread the ink, or to cause it to show through to the other side.

Slight repairs to donkey boiler

It is submitted that
this vessel is eligible for
THE RECORD. + L.M.C. 8.99

J.M.B.D.
4/8/99

THE SURVEYORS ARE REQUESTED NOT TO WRITE ACROSS THIS MARGIN.



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