

No. 13863

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

Date of writing Report *9th August 1895* When handed in at Local Office *9th August 1895* Port of *Glasgow* SAT. 10 AUG 1895  
 No. in Reg. Book *786* Survey held at *Glasgow* Date, First Survey *July 30th* Last Survey *August 4th 1895*  
 on the Machinery of the *Wood, Iron or Steel* *SS Clan Stuart* Master *D. Smith*  
 Tonnage { Gross *2094* Net *1355* Vessel built at *Dumbarton* By whom *A. M. Millan & Son* When *1879* 2  
 Registered Horse Power *214* Engines made at *Glasgow* When *1889* Boilers, when made (Main) *1889* (Donkey) *1889*  
 No. of Main Boilers *1* Owners *Baynes Irvine & Co* Port *Glasgow* Voyage *Cape Town*  
 No. of Donkey Boilers *1* If Surveyed Afloat or in Dry Dock *both*  
 Steam Pressure in Main Boilers *160* (State name of Dock.) *Headroide & Queens*  
 in Donkey Boilers *80*

Last Survey No. Port

Particulars of Examination and Repairs (if any) *Annual*

(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 *Yes*Do. " Donkey " " " *Yes*

If this was not done, state for what reasons?

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?

At what pressure were they afterwards adjusted under steam?

Did the Surveyor examine the Safety Valves of Donkey Boiler?

To what pressure were they afterwards adjusted?

Has the propeller shaft been drawn and examined at this time?

If the Survey is not complete state what arrangements have been made for its completion?

*Yes*  
*160 lb per sq"*  
*Yes*  
*Not adjusted.*  
*no*  
*To complete the survey the donkey boiler safety valves require adjusting, and the repairs effected here examined under steam. The vessel has sailed for Liverpool and the Surveyors have been notified.*

*The machinery was opened up throughout, and the cylinders pistons slide valves & faces, pumps, and all shafting (excepting propeller shaft) it having been examined last February.*

*Main boiler and its safety valves opened up and examined.*

*Donkey boiler, and its safety valves opened up and examined, found a portion of shell plating in steam space, corroded to about 3/16" thick, also the seven steam space stays much wasted. The corroded portion of shell plating about 3-9" x 22", and the seven stays have been cut out, and new plate and stays fitted.*

*When this vessel was in dry dock the sea cocks were opened up, propeller and its fastenings examined.*

General Observations, Opinion, and Recommendation:— *The machinery of this*

(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. 4, 04, B.&N.S. 4, 04 or L.M.C. 4, 04, 140 lb., F.D., &c.)

*vessel is now in good condition, and is eligible in our opinion to remain as classed, with fresh record of L.M.C. 5.95 in register book.*

Office or Registration Fee (per Sec. 27) £

Survey Fee (per Section 28) £

Special Damage Fee (per Section 28) £

Travelling Expenses (if chargeable) £

Fees applied for

787 18 95

Received by me,

9/8 18 95

State if Certificate is required

TUES. 13 AUG 1895

TUES. JAN 21 1896

TUES. JUL 14 1896

Committee's Minute

Assigned

Deferred

George Murdoch R.M.C. 5.95  
Engineer Surveyor to Lloyd's Register of British and Foreign Shipping.

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Foundation

GLS172-0352