

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

11136

No. 11136 Date of Writing Report Nov 30<sup>th</sup> 1891 Port of Glasgow (Received at London Office [1 DEC 91])  
 No. in Reg. Book 713 Survey held at Glasgow Date, first Survey 12<sup>th</sup> Nov Last Survey Nov 26<sup>th</sup> 1891  
 on the Machinery of the S. S. Ardambhan Master R. Smith No. of Visits 5  
 Tonnage Gross 1132 Net 719 Vessel built at Port Glasgow By whom H. Murray & Co When 1880-6  
 Registered Horse Power 98 Engines made at Glasgow When '80 Boilers, when made (Main) '80 (Donkey) '80  
 No. of Main Boilers one Owners Ardan, J. L. & Co. (Lark & Sons) Ltd Port Glasgow Voyage Bilbao  
 Steam Pressure in Main Boilers 70lb If Surveyed Afloat or in Dry Dock Pointstone Slipway Class of Vessel & Machinery 100A.1.10-90  
 in Donkey Boiler  (As in Register Book, including dates of Special Surveys of Ship and of last Boiler Survey.) S.S. 96 N° 2-88.  
 Last Survey No. \_\_\_\_\_ Port \_\_\_\_\_ 70lb.  
B.S. 11-90.

## Particulars of Examination and Repairs (if any)

(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 should be separated from Repairs due to other causes. 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? Yes  
 At what pressure were they afterwards adjusted under steam? 70lb.  
 Did the Surveyor examine the Safety Valves of Donkey Boiler? Yes  
 To what pressure were they afterwards adjusted? Not yet adjusted.

Main + donkey boilers opened out for examination and repair. In the combustion chambers of main boiler the back plates were slightly bulged between the secured stays. The stays in each box in the vicinity of the bulging have been taken out and replaced by new ones a size larger. About three dozen new stays in all - nuts both inside & out. Owing to continued leakage at one stay in centre box near bottom of back row, the plate had become very thin - about eighteen inches of the plate cut out and a new piece flanged & riveted in with new stays in place of those removed - nuts inside & out. Boiler caulked where necessary - otherwise in fair condition. Steam raised - safety valves adjusted when the boiler was free from leakage. When the vessel was on the slipway examined sea cocks, propeller & fastenings. Donkey boiler uptake found to be defective at the bottom flange - a new uptake with new flanged pieces top & bottom has now been riveted in. New stays in steam space - the new patch at bottom of fire box - bolted - a new rivet round bottom seam where required. These repairs were not completed in time to allow of steam being raised to adjust the safety valve, but the owners will advise on the return of the vessel in about [three weeks].

## General Observations, Opinion, and Recommendation:—

(State clearly what alteration, if any, is suggested to be made in the existing classification and notification of the vessel's machinery in the Register Book, consequent upon this survey: thus, for example, B.S. 1,89, B.&M.S. 1,89, or L.M.C. 1,89, as the case may be.)  
 The repairs to the main & donkey boilers have been satisfactorily carried out - I am of opinion the machinery is eligible to remain as classed in the Register Book with the notification B.S. 11-91 when the safety valves of donkey boiler have been adjusted under steam.

Office or Registration Fee (per Sec. 27) £ : : Fees applied for 30/11 18 91  
 Survey Fee (per Section 28) £ 1 10 " }  
 Special Damage Fee (per Section 28) £ : : }  
 Travelling Expenses (if chargeable) £ : : }  
 Received by me, 30/11 18 91  
 W. P. Robson.  
 Engineer Surveyor to Lloyd's Register of British and Foreign Shipping.

\*State if Certificate is Required.  
 Committee's Minute FRI 4 DEC 1891 TUES, 2 FEB 1892  
 Assigned Note for completion

15.-L. R. P. H.-Form No. 9.-Transfer Luk-5,000, 29. 2-91. (The Surveyors are requested not to write on or below the space for Committee's Minute.) \*Certificate to be sent to

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



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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 cause it to show through to the other side.

It is submitted that this vessel will be eligible to have B.S. 11-91 recorded, when the soft values of the Donkey boiler, have been adjusted under steam.

W.A.  
11-2-91

ORS ARE REQUESTED NOT TO WRITE ACROSS THIS MARGIN.