

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

(Received at London Office

WED. THUR. 11 1897

Date of writing Report *2nd March 1897* When handed in at Local Office *18* Port of *Glasgow*
 No. in Reg. Book *173* Survey held at *Glasgow* Date, First Survey *9th Feb* Last Survey *26th Feb 1894*
 on the Machinery of the *Wood, Iron or Steel* *S.S. Mangra* Master *Claisen*
 Tonnage Gross *164* Net *115.7* Vessel built at *Glasgow* By whom *A. Stephen & Sons* When *1889-10*
 Registered Horse Power *149* Engines made at *Glasgow* When *1889* Boilers, when made (Main) *1889* (Donkey) *1889*
 No. of Main Boilers *one* Owners *S.S. Mangra Coy Ltd* Port *Glasgow* Voyage *Spain*
 No. of Donkey Boilers *one* If Surveyed Afloat or in Dry Dock *Both - Dry Dock* Particulars of Classification (which must be inserted precisely as in Register Book & Supplements)

Last Survey No. _____ Port _____
 Particulars of Examination and Repairs (if any) *Periodical*

CHARACTER. * for Special Survey. Date of last Survey and of Periodical Surveys.	Machine and Boiler Surveys (including date of N.B., if any).
<i>+100 A1</i>	<i>+L.M.C</i>
<i>5-96</i>	<i>8-99</i>
<i>S.S. Saw 11-1-93</i>	<i>B.S. 1-96</i>

(Periodical Surveys, when held, must be reported in detail and seriatim 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? *Yes* At 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? *60 lbs.*
 Has the propeller shaft been drawn and examined at this time? *Yes* If spare propeller shaft fitted, state whether new? *✓*

If the Survey is not complete state what arrangements have been made for its completion and what remains to be done?
Damage Repairs consequent upon grounding 10th Jan 1897. - See Damage Survey Report. Now done as recom. - Two propeller blades renewed; propeller shaft drawn in for examination, and found in good condition; all shafts opened out; sea cocks and circulating pumps opened out; condenser doors taken off, and all tubes which were choked with mud & stones drawn, and checked & renewed as required.

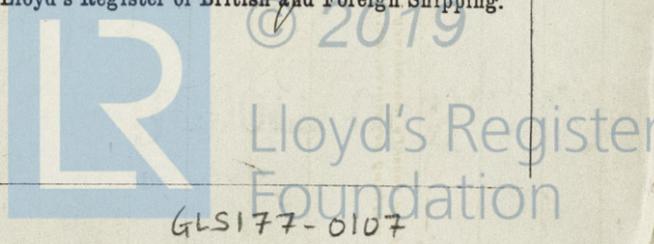
Repairs due to Special Survey: - Main & donkey boilers; cylinders; pistons, valves and helix pumps examined & found in good order. Several minor repairs done.

General Observations, Opinion, and Recommendation: - *The machinery of this vessel, as far as seen, in my opinion, is in safe working condition, and eligible to have record + L.M.C. 2-97 in the Register Book.*

Office or Registration Fee (per Sec. 27) £ _____
 Survey Fee (per Section 28) £ *30.14*
 Special Damage Fee (per Section 28) £ *3.31*
 Travelling Expenses (if chargeable) £ _____
 Fees applied for *9/3/94*
 Received by me, *10/3/94*

C. J. Bromeyer
R. J. Bennett
 Engineer Surveyor to Lloyd's Register of British and Foreign Shipping.

State if Certificate is required _____
 Committee's Minute *FRI. MAR 12 1897*
 Assigned *+ L.M.C. 2, 97*



*Certificate to be sent to

*It is submitted that
this vessel is eligible for*
THE RECORD + L.H.C. 2.97

AL
11.3.97

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THE SURVEYORS ARE REQUESTED NOT TO WRITE ACROSS THIS MARGIN.



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