

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

No. 3156.

Date of writing Report 29/5/13 When handed in at Local Office 29/5/13 (Received at London Office MON. JUN. 16. 1913)  
 No. in Reg. Book 646 Survey held at Calcutta Port of Calcutta  
 Date, First Survey 19/5/13 Last Survey 28/5/1913  
 on the Machinery of the Wood, Iron or Steel S.S. "GRACCHUS"  
 Tonnage { Gross 3750 Vessel built at Newcastle By whom Palmer's Co. Ltd. Master J.R. Patraik  
 Net 2404 Engines made at Newcastle By whom Palmer's Co. Ltd. When 1902  
 Registered Horse Power 483 Boilers, when made (Main) Palmer's Co. Ltd. When 1902  
 No. of Main Boilers 3 Owners A. Currie & Co. Proprietors, Ltd. Port Melbourne Voyage Australia  
 No. of Donkey Boilers — If Surveyed Afloat or in Dry Dock Dry Dock  
 Steam Pressure in Main Boilers 180 (State name of Dock.) Kidderpore. + River  
 in Donkey Boilers —

Last Report No. 3092 Port Calcutta

## Particulars of Examination and Repairs (if any) working - B.S.

Periodical Surveys, when held, must be reported in detail and verbatim 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 cause of which must be stated, should be briefly summarized at the end of the report. State also the dates and initials of any letters respecting this case.

In damage cases where the Surveyor has not made a special damage report he is required to state whether he offered his services for this purpose, and why they were declined?  
 Was a damage report made by anyone else? If so, by whom? Undersigned

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?

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?  
 To what pressure were they afterwards adjusted under steam? 180 lbs

Did the Surveyor examine the Safety Valves of Donkey Boiler?  
 To what pressure were they afterwards adjusted under steam?

Did the Surveyor examine all the manholes, doors and their fastenings of the Main Boilers?  
Yes, and of the Donkey Boiler? Yes

Did the Surveyor examine the drain plugs of the Main Boilers?  
Yes, and of the Donkey Boiler? Yes

Did the Surveyor examine all the mountings of the Main Boilers?  
Yes, and of the Donkey Boiler? Yes

Has screw shaft now been drawn and examined? ho

Is shaft now changed? ho If so, state reasons

Is the shaft now fitted new? Yes

Has it a continuous liner? Yes

State the distance between ligament of stern bush and top of after bearing of screw shaft? 1/8"

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

All main boilers opened up, examined throughout, found in good order, with all safety valves, doors & mountings. Safety valves adjusted under steam as above.

Coal placed in dry dock on account of alleged bounding, propeller & sea fastenings found in good order. Scurves & valves opened & examined.

## 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. 2,00, E.&H.S. 2,00, or \*L.M.C. 2,00, 140 lb., N.D., &c.)

As now seen is eligible in my opinion to remain as classed, & to have new record of B.S. 5. 1913.

Survey Fee (per Section 22) B.S. 2/6/-  
 Special Damage or Repair Fee (if any) 32/-  
 Selling Expenses (if chargeable) —  
 Fee applied for 28/5/13  
 Received by me, 19

Committee's Minute FRI. JUN. 20 1913  
 signed B.S. 5.13

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



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

Is a certificate required? If so, to be sent to...

Blau 3. 13 howled

Grounding Damage

Sea connection, now  
It is submitted that  
this vessel is eligible for  
**THE RECORD. B. S. 5. 13**

ESJ  
16.6.13

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.

THE SURVEYORS ARE REQUESTED NOT TO WRITE ACROSS THE MARGIN.



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