

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

(Received at London Office) SAT 4 MAR 1893

Date of writing Report *March 3 1893* When handed in at Local Office is *London* Port of *London*  
 No. in Reg. Book. Survey held at *London* Date, First Survey *Jan 25* Last Survey *Feb. 28<sup>th</sup> 1893*  
*62* on the Machinery of the ~~Wood, Iron or Steel~~ *S.S. "ECHUCA"* Master *Pearse*  
 Tonnage { Gross *2826* Net *1736* Vessel built at *Middlesbro* By whom *A. Dixon & Co* When *1889* YEAR MONTH  
 Registered Horse Power *400* Engines made at *Hartlepool* When *1889* Boilers, when made (Main) *1889* (Donkey) *1889*  
 No. of Main Boilers *Three* Owners *W. Lind* Port *London* Voyage *Australia*  
 Steam Pressure in Main Boilers *150lb* If Surveyed Afloat or in Dry Dock *S.W. India Dry Dock* Particulars of Classification (which must be inserted precisely as in Register Book & Supplements).  
 in Donkey Boiler *80lb* (State name of Dock.) *Wet*

Last Survey No. \_\_\_\_\_ Port \_\_\_\_\_  
 Particulars of Examination and Repairs (if any) *S.S. No. 1.*

CHARACTER * for Special Survey. Date of last Survey and of Periodical Surveys.	Years Assigned expired.	Machinery and Boiler Surveys (including date of N.B., if any).
<i>100. A. 1.</i> <i>8.92.</i>		<i>L.M.C.</i> <i>1.89.</i>

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? *150lb per sq*  
 Did the Surveyor examine the Safety Valves of Donkey Boiler? *Yes.*  
 To what pressure were they afterwards adjusted? *80lb per sq*  
 If the Survey is not complete state what arrangements have been made for its completion? *Completed*

*Examined Main & Donkey Boilers internally & externally & safety valves cylinders, pistons, slide valves, pumps & condenser, sea & bilge connections sluices & hoses, crank, thrust, & tunnel shafting, & propeller, tail end shaft drawn in & examined, all found to be in good condition, with the exception of the propeller, one blade of which was found to be broken off about one foot from the tip & two blades bent & twisted.  
 Repairs. The two bent propeller blades were straightened & a new blade fitted in place of the broken one. A new tail shaft was fitted (forging report attached) & the old shaft placed on board as spare.  
 The Main & Donkey boilers were afterwards seen under steam & the safety valves adjusted to 150lb & 80lb per sq respectively.*

General Observations, Opinion, and Recommendation: *This vessel's machinery is now in good condition & in my opinion the vessel is eligible to remain as classed & have notification. \* L.M.C. 2 93. recorded in the Register Book*  
(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. 9.92, B.&M.S. 9.92 or L.M.C. 9.92, as the case may be.)

Office or Registration Fee (per Sec. 27) £ : :  
 Survey Fee (per Section 28) £ *5 10 0*  
 Special Damage Fee (per Section 28) £ : :  
 Travelling Expenses (if chargeable) £ : :

Fees applied for  
*9 MAR 1893*  
 Received by me,  
*[Signature]*  
 1893

*[Signature]*  
 Engineer Surveyor to Lloyd's Register of British and Foreign Shipping.

\*State if Certificate is required \_\_\_\_\_  
 Committee's Minute *FRI 10 MAR 1893*  
 Assigned *+ L.M.C. 2, 93*

FRI 15 SEP 1893



State if a Report is also now sent on the Ship or if not whether, and when, one will be sent.

\*Certificate to be sent to

16-LRPH-Form No. 9-Transfer In-5,000, 7/19/92. (The Surveyors are requested not to write on or below the space for Committee's Minute.)

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

It is submitted that  
this vessel is eligible for  
THE RECORD + LMC 2.93 -

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.

On account of wear +  
tear a new tail shaft  
fitted, + the propeller  
blades repaired -  
20/9.3.93 -

THE SURVEYORS ARE REQUESTED NOT TO WRITE ACROSS THIS MARGIN.



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