

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

No. *4841* Port of *Glasgow* (Received at London Office, THURS 31 MARCH 1887)

No. in Survey held at *Port* Date, first Survey *5<sup>th</sup> Feb<sup>y</sup>* Last Survey *11<sup>th</sup> Feb<sup>y</sup>* 188*4*  
 Reg. Book. *969* on the Machinery of the *S. S. State of Pennsylvania* (Number of Visits *3*)  
 Year Month

Tonnage, Gross *2483* Built at *Glasgow* When built *1873 - 2*  
 Ditto, Net *1568* Owners *The State Steam Ship Co<sup>l</sup>d* Port belonging to *Glasgow*  
 Diameter of Cylinder *46 + 82* Engines made by *The London & Glasgow Co<sup>l</sup>d* When made *1873*  
 Length of Stroke *45"* Boilers made by *D & W Henderson* When made *1886*  
 Pressure of Steam *90 lbs* If Surveyed Afloat or in Dry Dock *Both in Dry Dock* (State Name of Dock.)  
 Registered Horse Power *400* Character in Register Book. *Classed 100 A. 1. 5-86. L. M. C. 5-86.*

Last Survey No. \_\_\_\_\_ Port \_\_\_\_\_  
 Particulars of Repairs and Examination *Annual Survey*

(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.)

The machinery of this vessel opened out for survey and there were examined the cylinders, pistons, slide valves, crank shaft & shafting, also the main boilers & safety valves. When the vessel was in Dry Dock the sea cocks & valves, propeller & fastenings were all examined. The Aft engine crankshaft which had some defects in main bearing has been removed & replaced by a new one. The main bearing stones have all been readjusted & the whole shaft re-bedded. The new shaft, which is of the built construction, was made by Mess<sup>rs</sup> D & W Henderson & on examination previous to fitting in place was found to be free from defects. A small fracture was found in flange of one centre furnace at junction to tube plate - the defective part has been cut out and a small patch fitted.

General Observations, Opinion, and Recommendation :—  
 (State clearly what alteration, if any, is suggested to be made in the existing notification of the vessel's machinery in the Register Book, consequent upon this survey.)

The new Aft crank shaft has been satisfactorily fitted on board and I am of opinion the machinery is in good & safe working condition and eligible to be classed *L. M. C. 2-87* in the Register Book.

Office or Registration Fee (per Sec 27)	£ - : - : -	} received by me, <i>[Signature]</i> 29/3/1887
Survey Fee (per Section 26)	£ 2 : 2 : -	
Special Damage Fee (per Section 28)	£ - : - : -	
*Certificate (if required)	£ - : - : -	
Travelling Expenses (if chargeable)	£ - : - : -	

Engineer Surveyor to Lloyd's Register of British and Foreign Shipping. *Walter Robson*

Committee's Minute *FRIDAY 1 APRIL 1887*  
 Assigned *[Signature]*



7871 gl

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 is  
eligible to have the notification  
S.M.C. 2.87 recorded.

W.P.

11/4/87



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