

# Report of Survey for Repairs of Engines and Boilers.

No. 88

No. in Reg. Book. Survey held at Newcastle

Date, first Survey 12<sup>th</sup> April Last Survey 28<sup>th</sup> May 1878

100 on the S.S. James Southern

Master

Tons 573  
762

Owners Wilson & Harris Port belonging to London

Classed 90A-  
Years assigned 8, 76  
Character in Register Book.

Diameter of Cylinder 38"

Length of Stroke 30"

Pressure of Steam 35 lb

Registered Horse Power 90

Engines made at Newcastle

When made 1872

By whom made Messrs P & W Hawthorn

Particulars of Repairs and Examination Special Survey No 3,

The Machinery of this vessel has undergone an extensive and thorough overhaul.

New Crank Shaft fitted. New piston rods to aft cylinder. New ends on piston rods for fore cylinder both rods carried up through cylinder covers. New Slide valve spindles to both cylinders. Richley's patent packing rings fitted to both pistons. New Air Pump bucket. Valves and seats for Air. Head & Bilge pumps overhauled. Link motion altered and overhauled. New cross-head to aft engine. New top and bottom brasses for connecting rods. Condenser cleaned and overhauled. The entire set of seats and valves for Head & Bilge pumps renewed.

General overhaul to Donkey & water service

New Main Boiler fitted on board. Boiler blow of cocks ash cocks. Donkey sea cocks carried up the bilge to suit Society's requirements. Main injection valve. Valves on Ballast Donkey and bilge systems to Main hold arranged to suit Society's requirements. This vessel was on Wallsend Slip way on the 24<sup>th</sup> May when her propeller and sea cocks were found in good order and condition.

The above repairs being now completed, the Machinery of this vessel is in good order and safe working condition, and I consider eligible to have the notation M.C. in red in the Society's Register Book.

The Amount of Fee ... £ 3 : 3 : 0 received by me,

Certificate (if required) ... £ " : 0 : 0 18 June 1878

(Travelling Expenses, if any, £ )

Engineer Surveyor to Lloyd's Register of British & Foreign Shipping.

Committee's Minute

18

North Shields



The Machinery & Boilers of this vessel  
have been repaired and are reported to be  
in good condition. They are also fitted  
in accordance with the committee  
requirements, submitted that she is  
eligible to remain as cleared  
and have the notification  
Lloyd's M.C. in the Register Book  
together with ~~the notification~~ a  
machinery certificate dated  
from 28 May 1878

W

20-6-78



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Foundation