

1896

# Report of Survey for Repairs of Engines and Boilers.

No. 4499 (Rec. 22/8/77)  
 No. in Reg. Book. 326 Survey held at Glasgow Date, first Survey March 16<sup>th</sup> Last Survey July 3<sup>rd</sup> 1897  
 on the S.S. "Bertha" Master Muller  
 Tons 257 Owners J. L. Seligman Port belonging to Glasgow Years assigned 1 Character in Register Book. A-1  
398

Diameter of Cylinder 22 1/2" each Engines made at Greenock When made 1874  
 Length of Stroke 24"  
 Pressure of Steam 65 lbs By whom made Wm Caird Donald & Co  
 Registered Horse Power 40

Particulars of Repairs and Examination Damage to Machinery & Boiler, sustained from vessel having been ashore on Holy Island while on a voyage from Glasgow to Denmark.

Cylinders & Slide Valve casing opened & Pistons & Valves cleaned & examined. Crank Shaft & Connecting Rod journals examined. Sea Cocks & Valves repaired. All pumps, pipes & hoses cleaned & examined. Propeller renewed, & new stern bush fitted, propeller shaft lined with brass at bearings. Steam & other pipes adjusted & repaired. Engines raised & seating stiffened and secured. Deck Winches repaired.

Main Boiler. Several rivets renewed. and seams caulked where necessary. Safety Valves cleaned & examined.

Donkey Boiler & all Mounting. thereof cleaned & examined.

The above repairs have been satisfactorily completed by the Messrs D & W. Henderson & Co, Glasgow.

The Amount of Fee £ 2 : 2 : received by me, 4th  
 Certificate (if required) £ : August 1877  
 (Travelling Expenses, if any, £ 1/11)  
 Committee's Minute As per with last Report 18

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

Submitted to the Register  
is eligible to remain as changed  
24.8.77

(Condition of Engines and Boilers, and subsequent Repairs and Examinations, to be clearly stated.)

(The Surveyors are requested not to write on or below the space for Committee's Minute).