

Report of Survey for Repairs of Engines and Boilers.

No. 189

No. in
Reg. Book.Survey held at *Stockton & South Shields*Date, first Survey *3rd April*Last Survey *30th May 1879*

No. on the

S. S. Elphinstone

Master

Deale

Built at

Newcastle

When built

1874 - 3rd mo.

Tons

*1146
1576
1701*

Owner

Hutchinson & Co.

Port belonging to

*Newcastle
Lloyds M.C. 7/78*

Classed

Character in Register Book.

*90 A 1
S.S. M.C. 7/78
7/78*

Diameter of Cylinder

30 x 60

Length of Stroke

33"

Engines made at

Newcastle

When made

1874

Pressure of Steam

late 70 lbs now 75 lbs

By whom made

Roberts Shipbuilding & Iron Coy.

Registered Horse Power

140

Particulars of Repairs and Examination of Engines & Boilers with a view to having same put in a safe and efficient state for an increased pressure of 75 lbs per sq. inch. Boilers lifted out of vessel to undergo necessary repairs. Now done to Starboard boiler. Crown plating of both furnaces and the bottom plating of starboard furnace renewed. Back plating of both combustion chambers and the plating of bottom of port combustion chamber renewed, with all new screwed stays for same. All plain tubes new and seven new stay tubes. Seams in bottom of boiler shell rivetted. Front plate repaired.

Repairs to port boiler. Crown plating of both furnaces and one plate in back of each combustion chamber renewed. All plain tubes new and seven new stay tubes. Screwed stays for supporting combustion chamber plating partially renewed. Seams in bottom of boiler shell rivetted.

Superheater plating drilled to admit of thickness of same being ascertained. Plating found little deteriorated in thickness. Screwed stays fitted in superheater to stiffen plating of inner tube.

After being repaired the boilers were tested to 150 lbs and the superheater to 180 lbs per sq. inch. The Main boilers are now in a safe & efficient state for a working pressure of 75 lbs per sq. inch. Main safety valves adjusted under steam to admit of a pressure of 75 lbs.

New donkey boiler. Made by H. Porter. Stockton on Tees. Tested 7th May 1879 to 140 lbs per sq. inch. Test Certificate No. 197. One direct cone valve on boiler loaded to admit of a working pressure of 66 lbs per sq. inch. Combined area of two valves 839 sq. in. Area of fire grate 19 sq. ft.

Slide valves, pistons, cylinders & pumps overhauled. Brasses for crank shaft bearings renewed. Crank shaft examined. Condenser tubes drawn & condenser cleaned. All working parts of engines adjusted. Propeller & sea connections examined in dry dock. Condition of same satisfactory. Drain pipe from superheater led into steam space of boiler instead of water space as formerly.

The machinery of this vessel is in my opinion eligible to remain as

The Amount of Fee ... £ 4: 4: received by me,

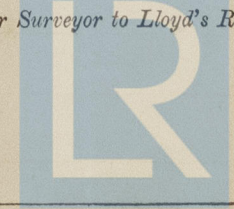
Certificate (if required) ... £ " : " : 6th June 1879

(Travelling Expenses, if any, £ 0: 1: 0)

Committee's Minute

18

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

Lloyd's Register
Foundation

11041 as Certified in the Register Book

James R. Allen

The Machinery of this vessel has been
thoroughly repaired and is reported to be
in good condition. Submitted that
she is eligible to remain as -

Cleared -

MD9.6.79



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