

SHIP'S NAME *L.S. "Devonia"* 25713 *Dev*

# LLOYD'S REGISTER OF BRITISH AND FOREIGN SHIPPING.

## ENGINEER SURVEYOR'S REPORT ON MACHINERY.

### ENGINES.

*Rec 14/2/80*

Report (if any) on Hull of Vessel. Port Newcastle No. 14705

Description *Inverted, Comp. Surp. Condens*  
 Made by *Palmers Coy Ltd*  
 When *Jan 1880* At *Newcastle*  
 Diameter of cylinders *31 7/8"* Length of stroke *36"*  
 No. of revolutions per minute *64*  
 Point of cut off *about half stroke*  
 Diameter of screw shaft *11"*  
 Diameter of crank shaft journals *10 1/2"*  
 Diameter of screw, or of paddle wheel *15 ft*  
 Pitch of screw *14 ft to 16 feet*  
 No. of blades *4* Total surface *54 sq ft*  
 No. of bilge pumps *2* and sizes *4 1/4 x 18"*  
 Do they pump from each compartment *yes*

Are all the bilge suction pipes fitted with roses *yes*  
 No. of feed pumps *2* and sizes *4 1/4 x 18"*  
 What gauges are there attached to the engines and boilers ... *1 Steam, 1 Vacuum in E.R., 1 Steam in Stokehold*  
 Description and size of Donkey Pumps ... *Ballast 9" x 12" D.A., Boiler 4 x 8 D.A., 4 Bilge Suction in E.R., 1 Bilge " " Stokehold, 1 " " " " " " " " " " " "*  
 Where do they pump from ... *1 " " " " " " " " " " " "*  
 No. of bilge injections *1* and sizes *4" diam*  
 Are they connected to air, or circulating pumps *no*  
 Is there a hand pump in the engine room *no*  
 Can it be worked by the main engines *no*  
 Is there a deck hose of sufficient length to reach to any part of the vessel *yes*

### MAIN BOILERS.

Number *One* Description *Double ended*  
 Made by *Palmers Coy Ltd*  
 When *Jan 1880* At *Newcastle*  
 Working pressure *75 lb*  
 Tested by hydraulic pressure to *150 lb*, Date *14.1.80*  
 Description of super-heating apparatus *none*  
 Can each boiler be worked separately *one boiler*

Can the super-heater be shut off and the boilers worked separately *no*  
 Description and area of safety valves on each boiler ... *2 Spring valves 4 1/2" diam = 32 sq inches*  
 No. of square feet of fire-grate surface in each boiler *64 sq feet*  
 Are there separate blow off and brine cocks on each boiler, independent of those on the vessel's skin *yes*  
 Are all pipes, cocks, roses, and pumps in connection with the machinery accessible at all times *yes*

### DONKEY BOILER.

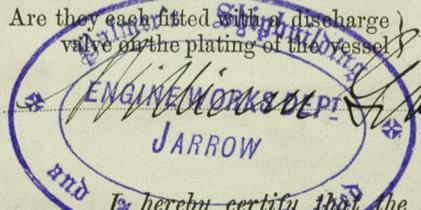
Description *Upright Cylindrical*  
 Where fixed *Stokehold*  
 Working pressure *75 lb*

Tested by hydraulic pressure to *150 lb*, Date *21.1.80*  
 Description and area of safety valves *dead weight 3 1/2" diam*  
 No. of square feet of fire grate *17 sq feet*

### PIPES, COCKS, AND CONNECTIONS.

Are all connections with the sea direct on the skin of the ship *yes*  
 Are they Kingston valves or common cocks ... *2 Screw valves other cocks*  
 Are they fixed sufficiently high on the ship's side to be seen without lifting the stoke hold plates ... *yes*  
 Are the discharge pipes above or below the deep water line *at line*  
 Are they each fitted with a discharge valve on the plating of the vessel *yes*

What pipes are carried through the bunkers *no*  
 How are they protected *no*  
 When were the stern tube, propeller, screw shaft, and all connections examined in dry dock *now*  
 Are the pipes, cocks, and valves arranged so as to prevent an unintentional connection between the sea and the bilge *yes*  
 Is the screw shaft-tunnel water tight and fitted with a sluice door on bulkhead *yes*



Manufacturers

*11. Visits*

I hereby certify that the whole of the above are correct particulars of the Machinery and Boilers of the Iron (or Wood) Screw (or Paddle) Steam Vessel *"Devonia"* owned by *J & R. Bovey* of the Port of *London* of *908* Tons Register, and *140* Registered Horse Power, and that they have been carefully inspected and examined by me at *Newcastle* and found to be at this date, viz., *January* 18 *80* in good order and safe working condition.

Amount of Fee for Survey *£ 21: 2: 6* Recd *W.S.*  
 (Travelling Expenses, if any, £ *2: 5: 0*) *11.2.80*

*John Overkat*  
 Engineer Surveyor to Lloyd's Register of Shipping.  
*W. H. Shields*

Boiler Tracing Enclosed

Form No. 8-1000-22 (7/8)

IRON 490-0299

It is submitted that the amount  
is payable to have the  
multiplicator ~~of~~ Lloyd's Inc.

1.80 recorded in the  
Register Book

AM 16/2/80



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