

LLOYD'S REGISTER OF BRITISH AND FOREIGN SHIPPING.

ENGINEER SURVEYOR'S REPORT ON MACHINERY.

ENGINES.

Rev 26/8/78

Description *Compound Inverted Surface Condensing*
 Made by *Charles D. Hulmer & Co.*
 When *1878* At *Hull*
 Diameter of cylinder *2: 44" x 76"* Length of stroke *48"*
 No. of revolutions per minute *60*
 Point of cut off *3/10 - 7/10 of stroke*
 Diameter of screw shaft *14" 0"*
 Diameter of crank shaft journals *14" 0"*
 Diameter of screw, or of paddle wheel *16" 6"*
 Pitch of screw *21" 0"*
 No. of blades *4* Total surface *10,400*
 No. of bilge pumps *2* and sizes *dia: 6" stroke: 24"*
 Do they pump from each compartment *Yes*

Are all the bilge suction pipes fitted with roses *Yes*
 No. of feed pumps *2* and sizes *dia: 5" stroke: 24"*
 What gauges are there attached to the engines and boilers ... *5 Steam gauges, 1 Vacuum gauge, 1 Compound gauge*
 Description and size of Donkey Pumps ... *Vertical dia: 4" stroke: 10" pump 6"*
 Where do they pump from ... *From Bilge and from Sea*
 No. of bilge injections *2* and sizes *9" valves*
 Are they connected to air, or circulating pumps *Circulating*
 Is there a hand pump in the engine room *Yes*
 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 *Two* Description *Circular tubular*
 Made by *Charles D. Hulmer & Co.*
 When *1878* At *Hull*
 Working pressure *15 lb per square inch*
 Tested by hydraulic pressure to *150 lb*, Date *7th June 1878*
 Description of super-heating apparatus *Vertical circular, four flues*
 Can each boiler be worked separately *Yes*

Can the super-heater be shut off and the boilers worked separately *No*
 Description and area of safety valves on each boiler ... *2 Adams Spring Valves 47,500 85,500*
 No. of square feet of fire-grate surface in each boiler *85,500*
 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.

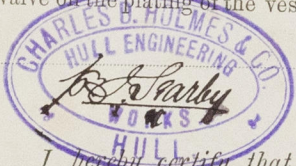
Description *Horizontal tubular*
 Where fixed *On deck*
 Working pressure *40 lb per square inch*

Tested by hydraulic pressure to *80 lb*, Date *7th June 1878*
 Description and area of safety valves *2 Adams Spring Valves 16,500*
 No. of square feet of fire grate *1500*

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 ... *Common 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 *Below*
 Are they each fitted with a discharge valve on the plating of the vessel *Yes*

What pipes are carried through the bunkers *None*
 How are they protected *None*
 When were the stern tube, propeller, screw shaft, and all connections examined in dry dock *20th & 27th May 1878*
 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*



Manufacturer.

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 *Lord of the Isles* owned by *Shaw & Son*
 of the Port of *London* of *1586* Tons Register, and *350* Registered Horse Power,
 and that they have been carefully inspected and examined by me at *Hull & Grimsby*
 and found to be at this date, viz., *22nd August* 1878 in good order and safe working condition.

Amount of Fee for Survey *13/4/78 £17:10:-* {not yet received
 (Travelling Expenses, if any, £ *10* -)

Engineer Surveyor to Lloyd's Register of Shipping.

Rec^d 16th Sep. 78.

21708 Iron.
The Spring Safety valves of Mainboiler
and donkeyboiler have been tested
on board under steam in the usual
way in my presence with a
satisfactory result.

Hull 22nd August 1888.

H. Heydale

It is submitted that this
vessel is eligible to have
a certificate granted
to Lloyd's M.C. 878
4784378 recorded
M 26/878



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Foundation