

LLOYD'S REGISTER OF BRITISH AND FOREIGN SHIPPING.

ENGINEER SURVEYOR'S REPORT ON MACHINERY.

ENGINES.

Description *Compound Inverted Direct Acting* are all the bilge suction pipes fitted with roses
 Made by *Messrs M. Paul & Co* No. of feed pumps *Two* and sizes *3 1/4" dia x 21" stroke*
 When *18 48* At *Dumbarton* What gauges are there attached to the engines and boilers ... *Four Steam one Vacuum one Compound*
 Diameter of cylinder *32 1/2" x 40"* Length of stroke *42"*
 No. of revolutions per minute *80*
 Point of cut off *1/2 stroke*
 Diameter of screw shaft *8 1/2"*
 Diameter of crank shaft journals *8 1/2"*
 Diameter of screw, ~~or of paddle wheel~~ *12 ft*
 Pitch of screw *16" x 6"*
 No. of blades, *four* Total surface *42 ft x 33 ft*
 No. of bilge pumps *one* and sizes *4" dia x 14" stroke*
 Do they pump from each compartment *yes*
 Description and size of Donkey Pumps ... *Double acting 4" dia x 8" stroke*
 Where do they pump from ... *from the sea bilge*
 No. of bilge injections *one* and sizes *2 1/2" x 4"*
 Are they connected to air, or circulating pumps *to 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 *Round Horizontal* Can the super-heater be shut off and the boilers worked separately *yes*
 Made by *M. Paul & Co* Description and area of safety valves on each boiler ... *Two Direct Spring each 7" area*
 When *18 48* At *Dumbarton* No. of square feet of fire-grate surface in each boiler *24 ft*
 Working pressure *90 lbs* Are there separate blow off and brine cocks on each boiler, independent of those on the vessel's skin *yes*
 Tested by hydraulic pressure to *140 lbs*, Date *July 29th 18 48* Are all pipes, cocks, roses, and pumps in connection with the machinery accessible at all times ... *yes*
 Description of super-heating apparatus ... *none*
 Can each boiler be worked separately *yes*

DONKEY BOILER.

Description *Round Vertical*
 Where fixed *In Stokehold*
 Working pressure *60 lbs*
 Tested by hydraulic pressure to *120 lbs*, Date *July 29th 18 48*
 Description and area of safety valves *Direct Spring 7" area*
 No. of square feet of fire grate *14 ft*

PIPES, COCKS, AND CONNECTIONS.

Are all connections with the sea direct on the skin of the ship *Main Injection is fitted on Casting*
 Are they Kingston valves or common cocks ... *Sluice Valves & 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 *Above*
 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 ...
 When were the stern tube, propeller, screw shaft, and all connections examined in dry dock *On Slip previous to being launched*
 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 *Matthew Paul & Co*

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 *"Amsterdam"* owned by *James Hamilton & Son*
 of the Port of *Glasgow* of *323* Tons Register and *115* Registered Horse Power,
 and that they have been carefully inspected and examined by me at *Dumbarton*
 and found to be at this date, viz., *Sept 10th 18 48* in good order and safe working condition.

Fee *£5-15/-* Guided *WMS*
 Travelling Expenses *£1-11-6*

James Morrison
 Engineer Surveyor to Lloyd's Register of Shipping

It is submitted that this
vessel is eligible to have
the notification Lloyd's
Regd recorded & a
certificate granted

M 13/9/78



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Foundation