

21686 Iron

LLOYD'S REGISTER OF BRITISH AND FOREIGN SHIPPING.

ENGINEER SURVEYOR'S REPORT ON MACHINERY.

ENGINES.

Recd 12/17/48

Report (if any) on Hull of Vessel. Port Glasgow No. 4311

Description *Compound Inverted Direct Acting* are all the bilge suction pipes fitted with roses *Yes*
 Made by *Messrs M. Paul & Coy* 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 *22 1/4" & 14"* Length of stroke *42"*
 No. of revolutions per minute *80*
 Point of cut off *1/2 Stroke* Description and size of Donkey Pumps ... *Double acting 4" dia x 8" stroke*
 Diameter of screw shaft *8 1/2"* Where do they pump from *From the sea bilge*
 Diameter of crank shaft journals *8 3/4"*
 Diameter of screw, or of paddle wheel *12 ft* No. of bilge injections *one* and sizes *2 1/4"*
 Pitch of screw *16" 6"* Are they connected to air, or circulating pumps *To Circulating*
 No. of blades, *four* Total surface *42 ft² & 33 ft²* Is there a hand pump in the engine room *Yes*
 No. of bilge pumps *one* and sizes *4" dia x 14" Stroke* Can it be worked by the main engines *No*
 Do they pump from each compartment *Yes* 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 & Coy* Description and area of safety valves on each boiler *Two Direct Spring each 4" area*
 When *18 48* At *Dumbarton* No. of square feet of fire-grate surface in each boiler *24 ft²*
 Working pressure *40 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 1848*
 Description of super-heating apparatus *none* Are all pipes, cocks, roses, and pumps in connection with the machinery accessible at all times *Yes*
 Can each boiler be worked separately *Yes*

DONKEY BOILER.

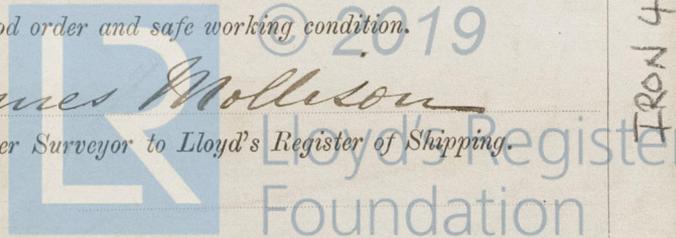
Description *Round Vertical* Tested by hydraulic pressure to *120 lbs*, Date *July 29th 1848*
 Where fixed *In stoke hold* Description and area of safety valves *Direct Spring 4" area*
 Working pressure *60 lbs* No. of square feet of fire grate *14 ft²*

PIPES, COCKS, AND CONNECTIONS.

Are all connections with the sea direct on the skin of the ship *Main Injection is fitted on Casting* What pipes are carried through the bunkers *none*
 Are they Kingston valves or common cocks ... *Sluice Valves & Cocks* How are they protected
 Are they fixed sufficiently high on the ship's side to be seen without lifting the stoke hold plates *Yes* When were the stern tube, propeller, screw shaft, and all connections examined in dry dock *On Slip previous to being launched*
 Are the discharge pipes above or below the deep water line *Above* Are the pipes, cocks, and valves arranged so as to prevent an unintentional connection between the sea and the bilge *Yes*
 Are they each fitted with a discharge valve on the plating of the vessel *Yes* Is the screw shaft-tunnel water tight and fitted with a sluice door on bulkhead *Yes*
Matthew Paul & Coy Manufacturers

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 1848* in good order and safe working condition.

See £5-15/- Paid *James Morrison*
Travelling Expenses £1-11-6 Engineer Surveyor to Lloyd's Register of Shipping



IRON 480-0120

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

M 13/9/78



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Lloyd's Register

For more information