

19758 Iron.

LLOYD'S REGISTER OF BRITISH AND FOREIGN SHIPPING.

ENGINEER SURVEYOR'S REPORT ON MACHINERY.

ENGINES.

Rev 6/12/77

Description *Compound Reciprocating*
Made by *North Eastern Marine Eng. Co Ltd*
When *Nov 18 77* At *Sunderland*
Diameter of cylinders *35+63* Length of stroke *36*
No. of revolutions per minute *60*
Point of cut off *7/8th*
Diameter of screw shaft *10 3/4*
Diameter of crank shaft journals *10 3/4*
Diameter of screw, ~~or of paddle wheel~~ *15.0*
Pitch of screw *15.0*
No. of blades, *4* Total surface *72 ft²*
No. of bilge pumps *2* and sizes
Do they pump from each compartment *aft well, fore hold & E. R. bilge*

Are all the bilge suction pipes fitted with roses *yes*
No. of feed pumps *2* and sizes *3 1/2 x 3 1/2*
What gauges are there attached to the engines and boilers ... *1 Steam to each boiler in S.H. 1 Steam 1 Vac in Eng Room*
Description and size of Donkey Pumps ... *(1) S.A. 6" x 9" (2) S.A. 4" x 6"*
Where do they pump from ... *Both pump from tanks, Condenser, sea, and same as bilge pump*
No. of bilge injections *1* and sizes *4"*
Are they connected to air, or circulating pumps *Circulating*
Is there a hand pump in the engine room *no*
Can it be worked by the main engines
Is there a deck hose of sufficient length to reach to any part of the vessel *yes*

MAIN BOILERS.

Number *Two* Description *Cylindrical*
Made by *North Eastern Marine Eng Co*
When *Nov 18 77* At *Sunderland*
Working pressure *70 lb*
Tested by hydraulic pressure to *140 lb*, Date *19/9/77*
Description of super-heating apparatus *none*
Can each boiler be worked separately *yes*

Can the super-heater be shut off and the boilers worked separately
Description and area of safety valves on each boiler ... *2 Adams 4 1/4 dia*
No. of square feet of fire-grate surface in each boiler *49 1/2 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 ... *except one in fore hold*

DONKEY BOILER.

Description *Vertical 3 cross tubes*
Where fixed *Stokehold*
Working pressure *50 lbs*

Tested by hydraulic pressure to *100 lb*, Date *20/9/77*
Description and area of safety valves *1 Dead weight 3 1/4 dia*
No. of square feet of fire grate *14 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 Valves, rest 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
When were the stern tube, propeller, screw shaft, and all connections examined in dry dock *new*
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*

Ort & Co Eng Co Ltd Manufacturers of *Main Engines & Boilers* Safety valves ease *70 lb* acc to *71"* close *68"*

We 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 *"Semiramide"* owned by *M. H. P. Jolly* of the Port of *Newcastle* of *1164.66* Tons Register, and *16 5/8* Registered Horse Power, and that they have been carefully inspected and examined by *us* at *Newcastle & Sunderland* and found to be at this date, viz., *November 22nd 18 77* in good order and safe working condition.

Amount of Fee for Survey ... £ *0 : 5 : 0* Recd by *G. W. Mansel & James Milton*
(Travelling Expenses, if any, £ *1.1.0*)
4/12/77

Engineer Surveyors to Lloyd's Register of Shipping.

North Shields