

17337 *Iran*

# LLOYD'S REGISTER OF BRITISH AND FOREIGN SHIPPING.

## ENGINEER SURVEYOR'S REPORT ON MACHINERY.

### ENGINES.

*Rec 20/11/76*

Description *Inverted Direct Acting Surface Cond.*  
 Made by *Messrs R & W Hawthorn*  
 When *18 Oct* At *Newcastle*  
 Diameter of cylinder *2 cyls 38"* Length of stroke *30"*  
 No. of revolutions per minute *About 65*  
 Point of cut off *About 3/4ths of stroke*  
 Diameter of screw shaft *8"*  
 Diameter of crank shaft journals *7 3/4" main shaft 7 5/8"*  
 Diameter of screw, or of paddle wheel *11-0*  
 Pitch of screw *17 1/2 to 19 1/2 feet*  
 No. of blades, *3* Total surface *in*  
 No. of bilge pumps *2* and sizes *4 x 8 stroke Single Acting*  
 Do they pump from each compartment *From engine room only*

Are all the bilge suction pipes fitted with roses *Yes*  
 No. of feed pumps *2* and sizes *4 x 18 stroke Single Acting*  
 What gauges are there attached to the engines and boilers ... *2 Steam 1 Vacuum*  
 Description and size of Donkey Pumps ... *No 1 - pump 8 dia x 12 stroke Double Acting No 2 - 4 x 8 Single Acting No 1 - draws from Stalkhole and tanks No 2 draws from engine room & sea*  
 Where do they pump from .....  
 No. of bilge injections *1* and sizes *1 1/4 dia*  
 Are they connected to air, or circulating pumps *Air Pump*  
 Is there a hand pump in the engine room *Small desk pump works by hand*  
 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 *Round Multitubular*  
 Made by *Messrs R & W Hawthorn*  
 When *Oct 1876* At *Newcastle*  
 Working pressure *35 lbs*  
 Tested by hydraulic pressure to *40 lbs*, Date *21 Sep 1876*  
 Description of super-heating apparatus *None*  
 Can each boiler be worked separately *Only one boiler in ship*

Can the super-heater be shut off and the boilers worked separately *No Superheater*  
 Description and area of safety valves on each boiler ..... *Direct Spring Two on boiler Area of two valves 39.26*  
 No. of square feet of fire-grate surface in each boiler *63 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 ..... *Suction pipes in tanks not accessible when vessel is loaded*

### NO DONKEY BOILER ON BOARD

Description .....  
 Where fixed .....  
 Working pressure .....

Tested by hydraulic pressure to ....., Date .....  
 Description and area of safety valves .....  
 No. of square feet of fire grate .....

### PIPES, COCKS, AND CONNECTIONS.

Are all connections with the sea direct on the skin of the ship *All except sea cock for small donkey which is attached to copper band pipe*  
 Are they Kingston valves or common cocks ... *Common cocks and sluice valves*  
 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 *Nov. 1876*  
 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 *No tunnel*

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 *Charles Capper* owned by *Messrs Bryn & Harris* of the Port of *London* of *479* Tons Register, and *90* Registered Horse Power, and that they have been carefully inspected and examined by me at *Newcastle & London on 14 Nov* and found to be at this date, viz., *November 14* 18 *76* in good order and safe working condition.

Amount of Fee for Survey ... £ *4:10:0* Revised  
 (Travelling Expenses, if any, £ *0:5:0* by me  
*4:15:0* *for found*  
*14/11/76*

*James Allan*  
 Engineer Surveyor to Lloyd's Register of Shipping.

Report (if any) on Hull of Vessel. Port Newcastle No. 12346.  
 Messrs Bryn & Harris, 81 Abchurch Lane, London, E.C. 4.