

LLOYD'S REGISTER OF BRITISH AND FOREIGN SHIPPING.

ENGINEER SURVEYOR'S CERTIFICATE & REPORT.

Rec. 21/1/76

15703 Iron ENGINES.

Description *Inverted, Compound, Surface Condensing,* Are all the bilge suction pipes fitted with roses *yes*
 Made by *W. R. J. Marshall, South Shields,* What vacuum and steam gauges are there attached to the engines and boilers..... *1 vacuum gauge on Condenser, 1 steam on boiler in Engine room,*
 In the year *1875,*
 Present condition *new,*
 Diameter of cylinder *one HP 23½ x one LP 45,*
 Length of stroke *30,*
 No. of revolutions per minute *65,*
 Point of cut off *½ stroke,*
 Paddle, or Screw *Screw,*
 Nominal Horse Power *85,*
 Diameter of screw, or of paddle wheel *10' 9"*
 Pitch of screw *15' 0"*
 No. of blades, *4* total surface *40 sq. ft.,*
 No. of bilge pumps *one* and size *4 dia. x 15 stroke single acting,*
 Do they pump from each compartment *yes,*
 Is there provision made for pumping from the wings of the stoke hold *yes,*
 No. of feed pumps *one* and sizes *4 dia. x 15 stroke single acting,*
 Description and size of *Inverted Cyl. 4½ dia x 6 stroke*
 Donkey Engine... *Pump 2½ " x 6 - "*
 Will it feed the boilers, pump from the bilges, and pump on deck *yes. & from ballast tanks,*
 Can it be driven by steam from a separate boiler *yes,*
 No. of bilge injections *one* and sizes *3 dia*
 Are they fitted with non return valves *yes,*
 Is there a hand pump in the engine room *No (Donkey can be used as such)*
 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

CONNECTIONS ON HULL.

Are all connections with the sea direct on the skin of the ship *Cock for filling ballast tank, has a short piece between it & ship's skin,* Are any pipes carried through the bunkers *none,*
 Are they Kingston valves or common cocks *Stop valves & Cocks,* If so state how protected
 Are they fixed sufficiently high on the ship's side to be seen without lifting the stoke hold *no,* When was the stern tube, propeller, screw shaft, and all connections examined in dry dock *new,*
 Are the discharge pipes above or below the deep water line *Above* How are the pipes, cocks, and valves arranged so as to prevent an unintentional connection between the sea and the bilge *Non return valves and shell Cock with 1 port in plug,*
 Are they each fitted with a discharge valve on the plating of the vessel *no have none, but these outlets are from 3 to 4 feet above deep load line,* Have the bilge suction non-return valves fitted or not *not fitted,*

BOILERS.

Number *One*
 Description *Cylindrical*
 Made by *W. R. J. Marshall,*
 In the year *1875,*
 Present condition *new,*
 When last extensively repaired *new,*
 Working pressure *65 lbs per sq. inch,*
 When tested by hydraulic pressure *Sept. 1875,*
 To what pressure tested *130 lbs per sq. inch,*
 Any super-heating apparatus *none*
 Describe it
 Can each boiler be worked separately *yes*
 Is each boiler fitted with a separate steam gauge *yes*
 Can the super-heater be shut off and the boilers worked separately
 No. of safety valves on each boiler *2,*
 Description and area of each safety valve *lever & weight 3½ dia = 8. 9 sq. in.*
 No. of square feet of fire-grate surface in each boiler *28½,*
 Is there a separate blow off and brine cock on each boiler, independent of those on the vessel's skin *yes (both with 1 Cock on ship's skin)*
 Is the screw shaft tunnel water tight and fitted with a sluice door on bulkhead *Tunnel not watertight. Sluice door fitted,*
 Are all pipes, cocks, and roses in connection with these boilers accessible to the engineer at all times *yes,*

W. R. J. Marshall Manufacturer.

I hereby certify that the whole of the above Machinery and Boilers of the Iron (~~or Wood~~) Screw (~~or Paddle~~) Steam Vessel *"Monaco,"* owned by *J. B. Dale,* of the Port of *South Shields* of *405.01* Tons Register, and *85* Nominal Horse Power, have been carefully inspected and examined by *me* at *Shields,* and found to be at this date, viz., *December 22* 1875, in good order and safe working condition.

Survey fee £4-4-0

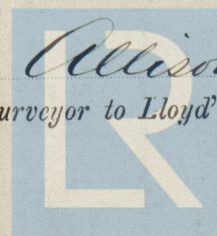
(1000/23/8/75.)

Certificate

£4-9-0

Received 19/1/76 H.H.

William Allison,
 Engineer Surveyor to Lloyd's Register of Shipping.



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IRON 464-0457