

Report No. 3316 15188 Iron Dec 4.10.75

LLOYD'S REGISTER OF BRITISH AND FOREIGN SHIPPING.

ENGINEER SURVEYOR'S CERTIFICATE, & REPORT.

ENGINES.

Description Inverted Compound Surface Condensing,
Made by Messrs J. Richardson & Sons, Hartlepool,
In the year 1875,
Present condition new,
Diameter of cylinders 33HP 61LP
Length of stroke 33,
No. of revolutions per minute 65,
Point of cut off 1/2 stroke,
Paddle, or Screw screw
Nominal Horse Power 150,
Diameter of screw, or of paddle wheel 14 feet,
Pitch of screw 15.9
No. of blades, 4 total surface 70, sq. feet
No. of bilge pumps 2 and size 7 1/2 dia. x 6 1/2 stroke single
Do they pump from each compartment yes,
Is there provision made for pumping from the wings of the stoke hole yes,

Are all the bilge suction pipes fitted with roses yes,
What vacuum and steam gauges are there attached to the engines and boilers 1 vacuum gauge on Condenser, 1 steam in engine room, 1 steam on each Boiler,
No. of feed pumps 2 and sizes 3 3/4 dia. x 2 5/2 stroke single acting,
Description and size of Donkey Engine... Inverted Cyl: 6 1/2 x 7 stroke, Pump 3 1/2 x 7 double acting,
Will it feed the boilers, pump from the bilges, and pump on deck yes,
Can it be driven by steam from a separate boiler yes,
No. of bilge injections 1 and sizes 3 1/2 dia.
Are they fitted with non return valves yes,
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,

CONNECTIONS ON HULL.

Connections with the sea on the skin of the ship yes,
Kingston valves or common cocks Common Valves & Cocks,
Are they fixed sufficiently high on the ship's side to be seen without lifting the stokehole 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,

Are any pipes carried through the bunkers no,
If so state how protected
When was the stern tube, propellor, screw shaft, and all connections examined in dry dock new,
How are the pipes, cocks, and valves arranged so as to prevent an unintentional connection between the sea and the bilge Non return valves & shell cock with only 1 port in plug,
Have the bilge suction non-return valves fitted or not not fitted,

BOILERS.

No. of boilers Two,
Description Cylindrical,
Made by Messrs J. Richardson & Sons,
Year 1875,
Present condition good,
Last extensively repaired new,
Working pressure 65 lbs per sq. inch,
Tested by Hydraulic pressure August 1875,
To what pressure tested 130 lbs per sq. inch,
Any super-heating apparatus none,
Describe it
Can each boiler be worked separately yes,
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 Spring 4 3/8 di 15.0 area,
No. of square feet of fire-grate surface in each boiler 38,
Is there a separate blow off and brine cock on each boiler, independent of those on the vessel's skin yes,
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,

Richardson & Sons Manufacturer.
Chas Smith

I hereby certify that the whole of the above Machinery and Boilers of the Iron (or Wood) Screw (or Paddle) vessel "Standard" owned by Messrs W. H. Wise & Co.,
Port of West Hartlepool of 1074 Tons Register, and 150 Nominal Horse Power,
have been carefully inspected and examined by me at Hartlepool and found to be
at this date, viz., September 7th 1875, in good order and safe working condition.

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