

3578

15866 Iron

LLOYD'S REGISTER OF BRITISH AND FOREIGN SHIPPING.

ENGINEER SURVEYOR'S CERTIFICATE & REPORT.

ENGINES.

Rec 1/3/76

Description *Inverted Compound Surface Condensing* Are all the bilge suction pipes fitted with roses *yes*
 Made by *Messrs The North Eastern Marine Engineering Co.* What vacuum and steam gauges are there attached to the engines *1 Vacuum gauge on Condenser 1 Steam in Engine room, Common to both boilers and boilers..... 1 " on each boiler.*
 In the year *1876.*
 Present condition *new.*
 Diameter of cylinder *29" one off, & one 56"*
 Length of stroke *40.*
 No. of revolutions per minute *about 55.*
 Point of cut off *25 ins.*
 Paddle, or Screw *Screw.*
 Nominal Horse Power *120.*
 Diameter of screw, or of paddle wheel *15' 6"*
 Pitch of screw *18 feet.*
 No. of blades, *4* total surface *57*
 No. of bilge pumps *2,* and size *3 1/2" dia x 40". 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 *2* and sizes *3 1/2" x 40". single acting.*
 Description and size of Donkey Engine... *Inverted 4 1/2" dia 6" stroke. Pump 4 " 6 " 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 *4" 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 *yes.*

CONNECTIONS ON HULL.

Are all connections with the sea direct on the skin of the ship *yes.*
 Are they Kingston valves or common cocks *stop valves, & 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 *above.*
 Are they each fitted with a discharge valve on the plating of the vessel *yes.*
 Are any pipes carried through the bunkers *none.*
 If so state how protected *new.*
 When was the stern tube, propeller, 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.*
 Have the bilge suction non-return valves fitted or not *not fitted.*

BOILERS.

Number *Two.*
 Description *Cylindrical.*
 Made by *The North Eastern Marine Engineering Co.*
 In the year *1876.*
 Present condition *new.*
 When last extensively repaired *new.*
 Working pressure *60 lbs per sq. inch.*
 When tested by hydraulic pressure, how? *25" 1875.* I was present *yes.*
 To what pressure tested *120 lbs per sq. inch.*
 Any super-heating apparatus *none.*
 Describe it *none.*
 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 *yes.*
 No. of safety valves on each boiler *2.*
 Description and area of each safety valve *spring 3 1/2" dia - 9.6 sq. ins*
 No. of square feet of fire-grate surface in each boiler *3 1/2.*
 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 is watertight sluice door fitted.*
 Are all pipes, cocks, and roses in connection with these boilers accessible to the engineer at all times *yes.*

I was present at the trial trip from Stockton to the Tyne July 19th 1876. Machinery worked very satisfactory. Steam 60 lbs. Vacuum 26 1/2 ins. Revs 57.

Manufacturer.

W. J. Allison

I hereby certify that the whole of the above Machinery and Boilers of the Iron (or Wood) Screw (or Paddle) Steam Vessel *"Ascoupark"* owned by *Messrs J. J. Harper & Co.*
 of the Port of *Southampton* of *857.73* Tons Register, and *120* Nominal Horse Power,
 have been carefully inspected and examined by me at *Sunderland and Stockton.* and found to be
 this date, viz., *Feb 19th* 1876 in good order and safe working condition.

Survey fee £5-5-0

Certificate £5-5-0

Received at Hartlepool

by W. J. Allison

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

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