

S. S. Topaze 22779. Ton.

LLOYD'S REGISTER OF BRITISH AND FOREIGN SHIPPING.

ENGINEER SURVEYOR'S REPORT ON MACHINERY.

ENGINES.

Description *Inverted Comp. Surface Condensing* Are all the bilge suction pipes fitted with roses *yes*
 Made by *J Richardson & Sons* No. of feed pumps *2* and sizes *3 1/2" x 2 1/2"*
 When *Jan* 1879 At *Hartlepool* What gauges are there attached to the engines and boilers ... *1 Steam, 1 Bar in Engine Room, 2 Steam in Stokholes.*
 Diameter of cylinder *33 1/2"* Length of stroke *33* Description and size of Donkey Pumps ... *Ballast 7 1/2" x 9" acting Feed 3 1/2" x 7" do do well in tunnel. Engine Feed.*
 No. of revolutions per minute *70* Where do they pump from ... *Main hold. Mr tank. Engine room tank. Main hold tank*
 Point of cut off *1/2* No. of bilge injections *1* and sizes *1 1/2*
 Diameter of screw shaft *10* Are they connected to air, or circulating pumps *no*
 Diameter of crank shaft journals *10 1/4* Is there a hand pump in the engine room *no*
 Diameter of screw, or of paddle wheel *15 1/2* Can it be worked by the main engines *no*
 Pitch of screw *16 1/2* Is there a deck hose of sufficient length to reach to any part of the vessel *yes*
 No. of blades, *4* Total surface *57 1/2 sq ft*
 No. of bilge pumps *2* and sizes *3" x 32 3/4"*
 Do they pump from each compartment *yes*

MAIN BOILERS.

Number *Two* Description *Cy. Multitubular* Can the super-heater be shut off and the boilers worked separately *no superheater*
 Made by *Messrs J Richardson & Sons* Description and area of safety valves on each boiler ... *2 Spring valves = 30 1/2 in area*
 When *Jan* 1879 At *Hartlepool* No. of square feet of fire-grate surface in each boiler *37 1/2*
 Working pressure *75 lbs* Are there separate blow off and brine cocks on each boiler, independent of those on the vessel's skin *yes*
 Tested by hydraulic pressure to *150 lbs*, Date *4.12.78* Are all pipes, cocks, roses, and pumps in connection with the machinery accessible at all times ... *yes*
 Description of super-heating apparatus *none*
 Can each boiler be worked separately *yes*

DONKEY BOILER.

Description *Cy upright* Tested by hydraulic pressure to *120 lbs*, Date *11.9.78*
 Where fixed *Stokhole* Description and area of safety valves *2 valves on each boiler 2 1/4" dia. 1 dead weight & 1 lever & weight*
 Working pressure *60 lbs* No. of square feet of fire grate *18 1/2*

PIPES, COCKS, AND CONNECTIONS.

Are all connections with the sea direct on the skin of the ship *yes* What pipes are carried through the bunkers *pipe for washing decks*
 Are they Kingston valves or common cocks ... *2 Kingston's others cocks* How are they protected *wood casing*
 Are they fixed sufficiently high on the ship's side to be seen without lifting the stoke hold plates ... *yes* When were 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 *Below* Are the pipes, cocks, and valves arranged so as to prevent an unintentional connection between the sea and the bilge *yes*
 Are they each fitted with a discharge valve on the plating of the vessel *yes* Is the screw shaft-tunnel water tight and fitted with a sluice door on bulkhead *yes*

J Richardson & Sons Manufacturer.
Mr Ch Smith

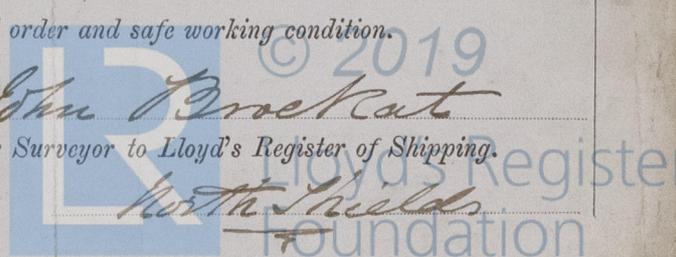
I hereby certify that the whole of the above are correct particulars of the Machinery and Boilers of the Iron (or Wood) Screw (or Paddle) Steam Vessel *Topaze* owned by *Messrs C. Young & Christie* of the Port of *London* of *1265.13* Tons Register, and *180* Registered Horse Power, and that they have been carefully inspected and examined by me at *Hartlepool & Newcastle* and found to be at this date, viz., *3 Feby* 1879 in good order and safe working condition.

Amount of Fee for Survey ... £ *9.0.0* } *Paid by*
Carpenter *0.5.0* } *Messrs C. Young*
 (Travelling Expenses, if any, £ *2.2.0*) } *21/2/79.*

John Brockton
 Engineer Surveyor to Lloyd's Register of Shipping.
North Shields

Report (if any) on Hull of Vessel. Port Newcastle No. 14290

Form No. 8-1000-22/17/15



The Engines & Boilers of this vessel have
been fitted in accordance with
the Committee's requirements submitted
This ste is eligible to have
Lloyd's M.P. and a machinery
certificate from 3 Feb 1919

MT

25-2-19



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