

REPORT ON MACHINERY.

No. 7896

Date of writing Report *31st Dec^r 1917* When handed in at Local Office *Belfast* Port of *Belfast*
 No. in Survey held at *Belfast* Date, First Survey *26th June* Last Survey *20th Dec^r 1917*
 Reg. Book. *SS. War Cobra* (Number of Visits *31*)
 Master *Luffery* Built at *Belfast* By whom built *Harland & Wolff L^r* Tons { Gross *5154*
 Engines made at *Belfast* By whom made *John Brown & Co L^r* Net *3132*
 Boilers made at *Glasgow* By whom made *John Brown & Co L^r* When built *1917*
 Registered Horse Power *518* Owners *The Shipping Controller* Port belonging to *London*
 Nom. Horse Power as per Section 28 *518* Is Refrigerating Machinery fitted for cargo purposes *No* Is Electric Light fitted *Yes*

ENGINES, &c.—Description of Engines *Single Screw Triple Expansion* Cylinders *3* No. of Cranks *3*
 Dia. of Cylinders *27"-44"-73"* Length of Stroke *48"* Revs. per minute *78* Dia. of Screw shaft *as per rule 14.68* Material of *Steel*
 Is the screw shaft fitted with a continuous liner the whole length of the stern tube *Yes* Is the after end of the liner made water tight
 in the propeller boss *Yes* If the liner is in more than one length are the joints burned *Yes* If the liner does not fit tightly at the part
 between the bearings in the stern tube, is the space charged with a plastic material insoluble in water and non-corrosive *Yes* If two
 liners are fitted, is the shaft lapped or protected between the liners *Yes* Length of stern bush *60 1/2"*
 Dia. of Tunnel shaft *as per rule 13.3* Dia. of Crank shaft journals *as per rule 13.9* Dia. of Crank pin *14 1/2"* Size of Crank webs *28 x 9* Dia. of thrust shaft under
 collars *14 1/2"* Dia. of screw *17"-6"* Pitch of Screw *16"-6"* No. of Blades *4* State whether moveable *No* Total surface *102 1/2 sq ft*
 No. of Feed pumps *2* Diameter of ditto *4"* Stroke *24"* Can one be overhauled while the other is at work *Yes*
 No. of Bilge pumps *2* Diameter of ditto *4"* Stroke *24"* Can one be overhauled while the other is at work *Yes*
 No. of Donkey Engines *See Sigsbee sheet* No. and size of Suctions connected to both Bilge and Donkey pumps
 In Engine Room *4-3 1/2"* In Holds, &c. *6-3 1/2"* *3-3 1/2"* *1-3"*

No. of Bilge Injections *1* sizes *8"* Connected to condenser, or to circulating pump *Yes* a separate Donkey Suction fitted in Engine room & size *1-3 1/2"*
 Are all the bilge suction pipes fitted with roses *Yes* Are the roses in Engine room always accessible *Yes* Are the sluices on Engine room bulkheads always accessible *Yes*
 Are all connections with the sea direct on the skin of the ship *Yes* Except Main & Tank suction cocks *Both*
 Are they fixed sufficiently high on the ship's side to be seen without lifting the stokehold plates *Yes* Are the Discharge Pipes above or below the deep water line *Below*
 Are they each fitted with a Discharge Valve always accessible on the plating of the vessel *Yes* Are the Blow Off Cocks fitted with a spigot and brass covering plate *Yes*
 What pipes are carried through the bunkers *Fore hold suction* How are they protected *Wood casings*
 Are all Pipes, Cocks, Valves, and Pumps in connection with the machinery and all boiler mountings accessible at all times *Yes*
 Are the Bilge Suction Pipes, Cocks, and Valves arranged so as to prevent any communication between the sea and the bilges *Yes*
 Dates of examination of completion of fitting of Sea Connections *13-10-17* of Stern Tube *20-10-17* Screw shaft and Propeller *7-11-17*
 Is the Screw Shaft Tunnel watertight *Yes* Is it fitted with a watertight door *No* *W.T. trunk from deck*
 worked from

BOILERS, &c.—(Letter for record *See Glasgow Report No 37350*)
 Total Heating Surface of Boilers *Is Forced Draft fitted* No. and Description of Boilers
 Working Pressure *Tested by hydraulic pressure to* Date of test *No. of Certificate*
 Can each boiler be worked separately *Area of fire grate in each boiler* No. and Description of Safety Valves to
 each boiler *Area of each valve* Pressure to which they are adjusted *Are they fitted with easing gear*
 Smallest distance between boilers or uptakes and bunkers or woodwork *Mean dia. of boilers* Length *Material of shell plates*
 Thickness *Range of tensile strength* Are the shell plates welded or flanged *Descrip. of riveting: cir. seams*
 long. seams *Diameter of rivet holes in long. seams* Pitch of rivets *Lap of plates or width of butt straps*
 Per centages of strength of longitudinal joint *Working pressure of shell by rules* Size of manhole in shell
 Size of compensating ring *No. and Description of Furnaces in each boiler* Material *Outside diameter*
 Length of plain part *Thickness of plates* Description of longitudinal joint *No. of strengthening rings*
 Working pressure of furnace by the rules *Combustion chamber plates: Material* Thickness: Sides *Back* Top *Bottom*
 Pitch of stays to ditto: Sides *Back* Top *If stays are fitted with nuts or riveted heads* Working pressure by rules
 Material of stays *Diameter at smallest part* Area supported by each stay *Working pressure by rules* End plates in steam space:
 Material *Thickness* Pitch of stays *How are stays secured* Working pressure by rules *Material of stays*
 Diameter at smallest part *Area supported by each stay* Working pressure by rules *Material of Front plates at bottom*
 Thickness *Material of Lower back plate* Thickness *Greatest pitch of stays* Working pressure of plate by rules
 Diameter of tubes *Pitch of tubes* Material of tube plates *Thickness: Front* Back *Mean pitch of stays*
 Pitch across wide water spaces *Working pressures by rules* Girders to Chamber tops: Material *Depth and*
 thickness of girder at centre *Length as per rule* Distance apart *Number and pitch of stays in each*
 Working pressure by rules *Superheater or Steam chest; how connected to boiler* Can the superheater be shut off and the boiler worked
 separately *Diameter* Length *Thickness of shell plates* Material *Description of longitudinal joint* Diam. of rivet
 holes *Pitch of rivets* Working pressure of shell by rules *Diameter of flue* Material of flue plates *Thickness*
 If stiffened with rings *Distance between rings* Working pressure by rules *End plates: Thickness* How stayed
 Working pressure of end plates *Area of safety valves to superheater* Are they fitted with easing gear

