

REPORT ON MACHINERY.

Date of writing Report 31st Dec^r 1917 When handed in at Local Office Belfast Received at London Office WED. 2 - JAN. 1918
 No. in Survey held at Belfast Date, First Survey 26 June Last Survey 20th Dec^r 1917
 Reg. Book. SS. War Cobra (Number of Visits 31)
 Master Supper Built at Belfast By whom built Harland & Wolff L^{td} Tons Gross 5154 Net 3132
 Engines made at Belfast By whom made John Brown & Co L^{td} when made 1917
 Boilers made at Glasgow By whom made John Brown & Co L^{td} when made 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 screw shaft as fitted 15.5 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 sketch 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 Mainmast & Tank inspection Hatch Valves or 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 3735-0
 Total Heating Surface of Boilers See Glasgow Report Is Forced Draft fitted Yes No. and Description of Boilers
 Working Pressure See Glasgow Report Tested by hydraulic pressure to See Glasgow Report Date of test See Glasgow Report No. of Certificate See Glasgow Report
 Can each boiler be worked separately See Glasgow Report Area of fire grate in each boiler See Glasgow Report No. and Description of Safety Valves to each boiler See Glasgow Report Area of each valve See Glasgow Report Pressure to which they are adjusted See Glasgow Report Are they fitted with easing gear See Glasgow Report
 Smallest distance between boilers or uptakes and bunkers or woodwork See Glasgow Report Mean dia. of boilers See Glasgow Report Length See Glasgow Report Material of shell plates See Glasgow Report
 Thickness See Glasgow Report Range of tensile strength See Glasgow Report Are the shell plates welded or flanged See Glasgow Report Descrip. of riveting: cir. seams See Glasgow Report
 long. seams See Glasgow Report Diameter of rivet holes in long. seams See Glasgow Report Pitch of rivets See Glasgow Report Lap of plates or width of butt straps See Glasgow Report
 Per centages of strength of longitudinal joint See Glasgow Report Working pressure of shell by rules See Glasgow Report Size of manhole in shell See Glasgow Report
 Size of compensating ring See Glasgow Report No. and Description of Furnaces in each boiler See Glasgow Report Material See Glasgow Report Outside diameter See Glasgow Report
 Length of plain part See Glasgow Report Thickness of plates See Glasgow Report Description of longitudinal joint See Glasgow Report No. of strengthening rings See Glasgow Report
 Working pressure of furnace by the rules See Glasgow Report Combustion chamber plates: Material See Glasgow Report Thickness: Sides See Glasgow Report Back See Glasgow Report Top See Glasgow Report Bottom See Glasgow Report
 Pitch of stays to ditto: Sides See Glasgow Report Back See Glasgow Report Top See Glasgow Report If stays are fitted with nuts or riveted heads See Glasgow Report Working pressure by rules See Glasgow Report
 Material of stays See Glasgow Report Diameter at smallest part See Glasgow Report Area supported by each stay See Glasgow Report Working pressure by rules See Glasgow Report End plates in steam space: See Glasgow Report
 Material See Glasgow Report Thickness See Glasgow Report Pitch of stays See Glasgow Report How are stays secured See Glasgow Report Working pressure by rules See Glasgow Report Material of stays See Glasgow Report
 Diameter at smallest part See Glasgow Report Area supported by each stay See Glasgow Report Working pressure by rules See Glasgow Report Material of Front plates at bottom See Glasgow Report
 Thickness See Glasgow Report Material of Lower back plate See Glasgow Report Thickness See Glasgow Report Greatest pitch of stays See Glasgow Report Working pressure of plate by rules See Glasgow Report
 Diameter of tubes See Glasgow Report Pitch of tubes See Glasgow Report Material of tube plates See Glasgow Report Thickness: Front See Glasgow Report Back See Glasgow Report Mean pitch of stays See Glasgow Report
 Pitch across wide water spaces See Glasgow Report Working pressures by rules See Glasgow Report Girders to Chamber tops: Material See Glasgow Report Depth and thickness of girder at centre See Glasgow Report Length as per rule See Glasgow Report Distance apart See Glasgow Report Number and pitch of stays in each See Glasgow Report
 Working pressure by rules See Glasgow Report Superheater or Steam chest; how connected to boiler See Glasgow Report Can the superheater be shut off and the boiler worked separately See Glasgow Report Diameter See Glasgow Report Length See Glasgow Report Thickness of shell plates See Glasgow Report Material See Glasgow Report Description of longitudinal joint See Glasgow Report Diam. of rivet holes See Glasgow Report Pitch of rivets See Glasgow Report Working pressure of shell by rules See Glasgow Report Diameter of flue See Glasgow Report Material of flue plates See Glasgow Report Thickness See Glasgow Report
 If stiffened with rings See Glasgow Report Distance between rings See Glasgow Report Working pressure by rules See Glasgow Report End plates: Thickness See Glasgow Report How stayed See Glasgow Report
 Working pressure of end plates See Glasgow Report Area of safety valves to superheater See Glasgow Report Are they fitted with easing gear See Glasgow Report

