

REPORT ON MACHINERY.

No. 6001

THUR. 14 DEC 1905

Port of Belfast

Received at London Office _____

No. in Survey held at Belfast Date, first Survey Feb. 21st Last Survey Dec. 8th 1905

Book. on the Turbine Steamship Ringera (Number of Visits 86) Gross 2091

ster Ward & Ferguson at Belfast By whom built Wolfehampton Dock, Plymouth Net 790

ines made at Belfast By whom made Wolfehampton Dock, Plymouth when made 1905

ilers made at _____ By whom made _____ when made _____

gistered Horse Power 583 Owners Australian S. Nav. Co. Ltd Port belonging to Glasgow

m. Horse Power as per Section 28 583 Is Refrigerating Machinery fitted for cargo purposes Yes Is Electric Light fitted Yes

GINES, &c. — Description of Engines Turbine Turbine No. of Cylinders 3 No. of Cranks 3

a. of Cylinders 4-8 5-4 6-3 Length of Stroke 14-3 14-3 14-3 Revs. per minute 600 Dia. of Screw shaft 6-3/4 Material of screw shaft Steel

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

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

tween the bearings in the stern tube, is the space charged with a plastic material insoluble in water and non-corrosive Yes

ners are fitted, is the shaft lapped or protected between the liners Yes Length of stern bush 8'-6"

Dia. of Tunnel shaft 6-1/2 Dia. of Crank shaft journals 6-1/2 Dia. of Crank pin 6-1/2 Size of Crank webs 6-1/2 Dia. of thrust shaft under

ollars 6-1/2 Dia. of screws 58 Pitch of screw 48 No. of blades 3 State whether moveable No Total surface 14000 sq. ft.

No. of Feed pumps 2 Diameter of ditto 10 1/2 Stroke 8 x 24 Can one be overhauled while the other is at work Yes

No. of Bilge pumps 1 Diameter of ditto 8 x 8 Stroke 8 x 8 Can one be overhauled while the other is at work Yes

No. of Donkey Engines 2 Sizes 8 x 8 No. and size of Suctions connected to both Bilge and Donkey pumps

In Engine Room 2-2 1/2 x 1-2 1/2 In Holds, &c. 3-2 1/2 x 1-2 1/2

No. of bilge injections 2 sizes 4 Is a separate donkey suction fitted in Engine room & size Yes - 2 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 Are they 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 Both

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 One Cold 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

When were stern tube, propeller, screw shaft, and all connections examined in dry dock Before launch Is it fitted with a watertight door Yes

Is it fitted with a watertight door Yes worked from Main Deck Is forced draft fitted Yes

BOILERS, &c. — (Letter for record Y) Total Heating Surface of Boilers 8540 Working Pressure 160 lbs Is forced draft fitted Yes

No. and Description of Boilers 2 - 2000 Area of fire grate in each boiler 107 sq. ft. No. and Description of safety valves to

Date of test 7-4-05 Can each boiler be worked separately Yes Area of each valve 12 sq. in. Pressure to which they are adjusted 160 lbs Are they fitted with easing gear Yes

Smallest distance between boilers or uptakes and bunkers or woodwork 14 Mean dia. of boilers 14-3 Length 19-6 Material of shell plates Steel

Thickness 1/2 Range of tensile strength 28-32 Are they welded or flanged No Descrip. of riveting: cir. seams Lap Jt. long. seams Butt Lapped

Diameter of rivet holes in long. seams 1/2 Pitch of rivets 8 1/2 Length of plates or width of butt straps 18

Per centages of strength of longitudinal joint 85.6 Working pressure of shell by rules 179 lbs Size of manhole in shell 16 x 12

Size of compensating ring 12 No. and Description of Furnaces in each boiler 6 - Morrison Material Steel Outside diameter 45 1/2

Length of plain part 4 Thickness of plates 3 1/2 Description of longitudinal joint Weld No. of strengthening rings 0

Working pressure of furnace by the rules 180 lbs Combustion chamber plates: Material Steel Thickness: Sides 5 Back 5 Top 5 Bottom 5

Pitch of stays to ditto: Sides 9 1/2 x 8 1/2 Back 9 1/2 x 8 1/2 stays are fitted with nuts or riveted heads Nuts inside Working pressure by rules 171 lbs

Material of stays Iron Diameter at smallest part 1 1/2 Area supported by each stay 78 1/2 Working pressure by rules 196 lbs Material of stays Steel

Diameter at smallest part 2 1/2 Area supported by each stay 340 sq. in. Working pressure by rules 161 lbs Material of Front plates at bottom Steel

Thickness 3/8 Material of Lower back plate Steel Thickness 3/8 Greatest pitch of stays 1 1/2 x 1 1/2 Working pressure of plate by rules 161 lbs

Diameter of tubes 2 1/2 Pitch of tubes 3 1/2 x 3 1/2 Material of tube plates Steel Thickness: Front 5/8 Back 5/8 Mean pitch of stays 1 1/2 x 1 1/2

Pitch across wide water spaces 13 1/2 Working pressures by rules 161 lbs Girders to Chamber tops: Material Steel Depth and

thickness of girder at centre 1 1/2 x 3 Length as per rule 48 1/2 Distance apart 8 1/2 Number and pitch of Stays in each 4 - 9 1/2

Working pressure by rules 161 lbs Superheater or Steam chest; how connected to boiler Yes Can the superheater be shut off and the boiler worked

separately Yes Diameter 16 Length 16 Thickness of shell plates 1/2 Material Steel Description of longitudinal joint Weld Diam. of rivet

holes 1/2 Pitch of rivets 1/2 Working pressure of shell by rules 161 lbs Diameter of flue 16 Material of flue plates Steel Thickness 1/2

If stiffened with rings Yes Distance between rings 16 Working pressure by rules 161 lbs End plates: Thickness 1/2 How stayed Yes

Working pressure of end plates 161 lbs Area of safety valves to superheater 161 lbs Are they fitted with easing gear Yes



