

Port of Belfast Received at London Office FRI. 23 NOV 1806
 No. in Survey held at Belfast Date, first Survey 12 Jan 06 Last Survey 17 Nov 06
 Reg. Book. Y.S.S. Rohilla (Number of Visits 66)
 on the Y.S.S. Rohilla Gross 7144 Tons Net 3970
 Master J. Smith Built at Belfast By whom built Harland & Wolff L^r When built 1906
 Engines made at Belfast By whom made - when made -
 Boilers made at - By whom made - when made -
 Registered Horse Power - Owner British India S^r. N. Coy Port belonging to Glasgow
 Nom. Horse Power as per Section 28 1484 Is Refrigerating Machinery fitted for cargo purposes No Is Electric Light fitted Yes

ENGINES, &c.—Description of Engines Seven Screw Quadruple Exp^d No. of Cylinders 8 No. of Cranks 8
 Dia. of Cylinders 27"-38½"-53½"-80" Length of Stroke 54 Revs. per minute 80 Dia. of Screw shaft as per rule 15.0" Material of S. Steel
 as fitted 16.25" screw shaft
 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 - If two
 liners are fitted, is the shaft lapped or protected between the liners Yes Length of stern bush 5'-6"
 Dia. of Tunnel shaft as per rule 14.05" Dia. of Crank shaft journals as per rule 15.314.7" Dia. of Crank pin 16½" Size of Crank webs 22" x 11½" Dia. of thrust shaft under
 collars 16" Dia. of screw 17"-3" Pitch of Screw 28'-0" No. of Blades 3 State whether moveable Yes Total surface 73 sq ft
 No. of Feed pumps each engine 5½" Stroke 30" Can one be overhauled while the other is at work Yes
 No. of Bilge pumps 1 Diameter of ditto 6" Stroke 30" Can one be overhauled while the other is at work Yes
 No. of Donkey Engines See of other sheet No. and size of Suctions connected to both Bilge and Donkey pumps
 In Engine Room 2-3½", 2-3", 3-2½" In Holds, &c. 10-3½", 7-2½"

No. of Bilge Injections 2 sizes 10 Connected to condenser, or to circulating pump Pump separate Donkey Suction fitted in Engine room & size 4-3"
 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 None
 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 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 iron 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 8-9-06 of Stern Tube 8-9-06 Screw shaft and Propeller 8-9-06
 Is the Screw Shaft Tunnel watertight Stated to be it fitted with a watertight door Yes worked from Upper deck.

BOILERS, &c.—(Letter for record S.) Manufacturers of Steel W. Colville & Lons.
 Total Heating Surface (Double length tank) 2894 sq ft No. and Description of Boilers 3 Double End
 Working Pressure 215 lbs Tested by hydraulic pressure to 430 lbs Date of test 4-7-06 No. of Certificate 380
 Can each boiler be worked separately Yes Area of fire grate in each boiler 8.2 sq ft No. and Description of Safety Valves to
 each boiler 3, Direct Flue Area of each valve 9.62 sq ft Pressure to which they are adjusted 215 lbs Are they fitted with easing gear Yes
 Smallest distance between boilers or uptakes and bunkers 18" Mean dia. of boilers 14-9" Length 19'-6" Material of shell plates Steel
 Thickness 1½" Range of tensile strength 29-32 Are the shell plates welded or flanged No Descrip. of riveting: cir. seam L. Dr. Y.
 long. seams Butt Double Diameter of rivet holes in long. seams 1½" Pitch of rivets 10" Top of plates or width of butt straps 22½"
 Per centages of strength of longitudinal joint 94.7 Working pressure of shell by rules 247 lbs Size of manhole in shell 16" x 12"
 Size of compensating ring 11" Neils No. and Description of Furnaces in each boiler 6-Manuvers Material Steel Outside diameter 46½"
 Length of plain part top 3' 6" Thickness of plates crown 3' 4" Description of longitudinal joint Weld No. of strengthening rings 370 on
 Working pressure of furnace by the rules 245 lbs combustion chamber plates: Material Steel Thickness: Sides 5" Back 5" Top 5" Bottom 5"
 Pitch of stays to ditto: Sides 8½" x 7½" Back 8½" x 7½" Top 8½" x 7½" stays are fitted with nuts or riveted heads Nuts inside Working pressure by rules 217 lbs
 Material of stays Steel Diameter at smallest part 1½" x 1" Area supported by each stay 61.8 sq ft Working pressure by rule 284 lbs and plates in steam space:
 Material Steel Thickness 1½" Pitch of stays 7½" x 15" How are stays secured to plates Working pressure by rules 279 lbs Material of stays Steel
 Diameter at smallest part 2½" Area supported by each stay 26.2 sq ft Working pressure by rule 248 lbs Material of Front plates at bottom Steel
 Thickness 15-14" Material of Lower back plate Yes Thickness Yes Greatest pitch of stays Yes Working pressure of plate by rules Yes
 Diameter of tube 2½" Pitch of tubes 3½" x 3½" Material of tube plates Steel Thickness: Front 15-14" Back 16" Mean pitch of stays 7½" x 7½"
 Pitch across wide water spaces 13½" Working pressures by rules 371 lbs Chamber tops: Material Iron Depth and
 thickness of girder at centre 7½" x (3" x 2) Length as per rule 48" Distance apart 8½" Number and pitch of stays in each 6-7½"
 Working pressure by rules 268 lbs Superheater or Steam chest; how connected to boiler Yes 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

VERTICAL DONKEY BOILER— Manufacturers of Steel

No.	Description			
Made at	By whom made	When made	Where fixed	
Working pressure	tested by hydraulic pressure to	Date of test	No. of Certificate	Fire grate area
Valves	No. of Safety Valves	Area of each	Pressure to which they are adjusted	Date of adjustment
If fitted with easing gear	If steam from main boilers can enter the donkey boiler	Dia. of donkey boiler	Length	
Material of shell plates	Thickness	Range of tensile strength	Descrip. of riveting long. seams	
Dia. of rivet holes	Whether punched or drilled	Pitch of rivets	Lap of plating	Per centage of strength of joint
Working pressure of shell by rules	Thickness of shell crown plates	Radius of do.	No. of stays to do.	Dia. of stays
Diameter of furnace Top	Bottom	Length of furnace	Thickness of furnace plates	Description of joint
Working pressure of furnace by rules	Thickness of furnace crown plates	Stayed by		
Diameter of uptake	Thickness of uptake plates	Thickness of water tubes	Dates of survey	

SPARE GEAR. State the articles supplied :—

The foregoing is a correct description,

Manufacturer.

Harland & Wolff Ltd.

Dates of Survey while building { During progress of work in shops - 12.10.19 Feb 5-7.14.16.20. 23.27. March 2.6.9.14
During erection on board vessel - 14.16.20.29 April 5.12.20. up to 17th Nov 3
Total No. of visits 66

Is the approved plan of main boiler forwarded herewith

Yes

Dates of Examination of principal parts—Cylinders 16-18-20 Covers 5 Pistons 20/10/06 Rods 20/10/06
Connecting rods 6-9-06 Crank shaft 26/3/06 Thrust shaft 20/10/06 Tunnal shafts 20/10/06 Screw shaft 20/10/06
Stern tube 6/7/06 Steam pipes tested 8/8/06 } Engine and boiler seatings 3/10/06 Engines holding down bolts 23/10/06
Completion of pumping arrangement 14/11/06 2/9/06 } Boilers fixed 3/10/06 Engines tried under steam 25/10/06
Main boiler safety valves adjusted 25/10/06 Thickness of adjusting washers 1/6
Material of Crank shaft S. Steel Identification Mark on Do. R.J.B. Material of Thrust shaft do Identification Mark on Do. do
Material of Tunnal shafts do Identification Marks on Do. 20-8-04 Material of Screw shafts do Identification Marks on Do. do
Material of Steam Pipes R. Iron & Solid drawn Steel Test pressure 645 lbs per sq. in.

General Remarks (State quality of workmanship, opinions as to class, &c.)

The machinery of this vessel has been constructed under Special Survey, and in accordance with the Rules. The workmanship, and the materials used, are of good description, and on trials in Belfast Lough, the machinery worked satisfactorily. In my opinion it is eligible for record + L.M.C. 11-06 with notation of Free Propulsion & Electric Light.

It is submitted that this vessel is eligible for THE RECORD H.L.M.C. 11.06. F.D. ELEC. LIGHT.

Eng. 23.11.06

The amount of Entry Fee. £ 3 : 0 :
Special £ 94 : 4 :
Donkey Boiler Fee £ : :
Travelling Expenses (if any) £ : :

When applied for, 21-11-06
When received, 24-11-06

R. J. B. Reid
Engineer Surveyor to Lloyd's Register of British & Foreign Shipping.

Committee's Minute

TUES. NOV 27 1906

Assigned

MACHINERY CERTIFICATE WRITTEN

+ L.M.C. 11.06
F.D. Elec. Light.



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If not, state whether, and when, one will be sent? Is a Report also sent on the Hull of the Ship?

[Lm.12.05 Copyable Ink.]