

Rpt. 4.

REPORT ON MACHINERY.

No. 7346

Received at London Office

SAT. MAR. 14. 1914

Date of writing Report 10th March 14 When handed in at Local Office

10

Port of Belfast

No. in Survey held at

Belfast

Date, First Survey

23 Oct 1912

Last Survey

6th March 1914

Reg. Book.

on the S.S. Carnarvonshire

(Number of Vessels 104)

Gross 9406

Net 5965

Tons

Built 1914

Master L. W. Bolland

Built at

Belfast

By whom built

Wickman Clark & Co.

Engines made at

Belfast

By whom made

-

- when made

1914

Boilers made at

-

By whom made

-

- when made

-

Registered Horse Power

977

Owners Royal Mail Steam Packet Co. Ltd. belonging to

Belfast

Nom. Horse Power as per Section 28

977

Is Refrigerating Machinery fitted for cargo purposes

Yes

Is Electric Light fitted

Yes

ENGINES, &c.—Description of Engines Twin Screw Triple Expansion, of Cylinders 6 No. of Cranks 6

Dia. of Cylinders 24"-40½"-68" Length of Stroke 48" Revs. per minute 76 Dia. of Screw shaft as per rule 14.18 Material of screw shaft as fitted 15.0 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 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 Length of stern bush 60"

Dia. of Tunnel shaft as per rule 12.59 Dia. of Crank shaft journals as per rule 13.5 Dia. of Crank pin 14" Size of Crank web 26" x 9½" Dia. of thrust shaft under

collars 14" Dia. of screw 17" 0" Pitch of Screw 8"-9" No. of Blades 3 State whether moveable Yes Total surface 85 sq. ft.

No. of Feed pumps One in each Engine Can one be overhauled while the other is at work

No. of Bilge pumps One in each Engine Stroke 24" Can one be overhauled while the other is at work

No. of Donkey Engines See other sheets No. and size of Suctions connected to both Bilge and Donkey pumps

In Engine Room 3-3½" In Holds, &c. 13-3½" and 8-2½"

No. of Bilge Injections 2 sizes 8" Connected to condenser, or to circulating pump Is a separate Donkey Suction fitted in Engine room & size 20 3½"

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

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 None How are they protected

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 13-12-13 of Stern Tube 13-12-13 Screw shaft and Propeller 13-12-13

Is the Screw Shaft Tunnel watertight Yes Is it fitted with a watertight door Yes worked from Top platform E. Room

BOILERS, &c.—(Letter for record S) Manufacturers of Steel Beardmore & Co. Ltd.

25B-5000 Total 14600 lb.

Total Heating Surface of Boilers 9600 sq. ft. Forced Draft fitted Yes No. and Description of Boilers 2 Double End Cylind.

Working Pressure 200 lbs. Tested by hydraulic pressure to 400 lbs. Date of test 4-12-13 No. of Certificate 458

Can each boiler be worked separately Yes Area of fire grate in each boiler 118½ sq. ft. No. and Description of Safety Valves to

each boiler 3-Direct Spring Area of each valve 12.56 sq. in. Pressure to which they are adjusted 200 lbs. Are they fitted with easing gear Yes

Smallest distance between boilers or uptakes and bunkers or woodwork About 18" Mean dia. of boilers 14-10½" Length 19'-9" Material of shell plates Steel

Thickness ½" Range of tensile strength 28-32 Tons Are the shell plates welded or flanged No Descrip. of riveting: cir. seams Lap or J.

long. seams G. Butt Lap Dia. of rivet holes in long. seams ½" Pitch of rivets 10½" Lap of plates or width of butt straps 22½"

Per centages of strength of longitudinal joint rivets 83.5% Working pressure of shell by rules 226 lbs. Size of manhole in shell 16" x 12"

Size of compensating rim McKee's No. and Description of Furnaces in each boiler 6-Morrison's Material Steel Outside diameter 47½"

Length of plain part top 4" bottom 8" Thickness of plates crown 4½" bottom 4" Description of longitudinal joint Weld No. of strengthening rings 8 on

Working pressure of furnace by the rules 232 lbs. Combustion chamber plates: Material Steel Thickness: Sides 3½" Back 3½" Top 3½" Bottom 15"

Pitch of stays to ditto: Sides 8½" x 8½" Back 8" x 7" If stays are fitted with nuts or riveted heads Nuts Working pressure by rules 211 lbs.

Material of stays Steel Diameter at smallest part 1½" Area supported by each stay 69 sq. in. Working pressure by rules 269 lbs. End plates in steam space:

Material Steel Thickness 1½" Pitch of stays 18½" x 14½" How are stays secured Nuts & Washers Working pressure by rules 227 lbs. Material of stays Steel

Diameter at smallest part 2 11/16" Area supported by each stay 235 sq. in. Working pressure by rules 270 lbs. Material of Front plates at bottom Steel

Thickness 1" Material of Lower back plate Thickness Greatest pitch of stays Working pressure of plate by rules

Diameter of tubes 2½" Pitch of tubes 3½" x 3½" Material of tube plates Steel Thickness: Front 3/8" Back 13/16" Mean pitch of stays 7½" x 7½"

Pitch across wide water spaces 13½" Working pressures by rules 204 lbs. Girders to Chamber tops: Material Steel Depth and

thickness of girder at centre 7½" x (3/4" x 2) Length as per rule 52 3/8" Distance apart 8" Number and pitch of stays in each 6-7"

Working pressure by rules 227 lbs. 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

W490-0093

Lloyd's Register Foundation

Lloyd's Register
Foundation