

REPORT ON BOILERS.

No. 7024.

Received at London Office WED. DEC. 27. 1911

Date of writing Report 22nd Dec 1911 When handed in at Local Office 22nd Dec 1911 Port of Belfast
 No. in Survey held at Belfast Date, First Survey 23rd March Last Survey 21st Dec 1911
 Reg. Book. on the T. S. S. "Ehima" (Number of Visits ✓) Gross Tons ✓ Net Tons ✓
 Master ✓ Built at Belfast By whom built Workman Clark & Co. Ltd When built 1911
 Engines made at Belfast By whom made Workman Clark & Co. Ltd (No 308) when made 1911
 Boilers made at Do By whom made Do when made 1911
 Registered Horse Power ✓ Owners British India Steam Nav. Co Port belonging to Glasgow

MULTITUBULAR BOILERS—~~MAIN~~, ~~AUXILIARY~~ OR DONKEY.—Manufacturers of Steel W. Beadmore & Steel Co of Scotland(Letter for record S.) Total Heating Surface of Boilers 1327 1/2 sq ft Is forced draft fitted no No. and Description ofBoilers one single ended Working Pressure 100 lbs Tested by hydraulic pressure to 200 lbs Date of test 28.9.11No. of Certificate 446 Can each boiler be worked separately yes Area of fire grate in each boiler 36.7 sq ft No. and Description ofsafety valves to each boiler double spring loaded Area of each valve 8.29 sq in Pressure to which they are adjusted 100 lbsAre they fitted with easing gear yes In case of donkey boilers, state whether steam from main boilers can enter the donkey boiler noSmallest distance between boilers or uptakes and bunkers or woodwork 28" Mean dia. of boilers 12.0" Length 10.0"Material of shell plates steel Thickness 4 3/4" Range of tensile strength 38/32 tons Are the shell plates welded or flanged noDescrip. of riveting: cir. seams S. Riv. long. seams D. R. D. B. S. Diameter of rivet holes in long. seams 32 Pitch of rivets 4 1/2"Lap of plates or width of butt straps 9" Per centages of strength of longitudinal joint rivets 82.6 Working pressure of shell byrules 108 lbs Size of manhole in shell 16" x 12" Size of compensating ring W. Beadmore No. and Description of Furnaces in eachboiler 2 plain Material steel Outside diameter 43 3/4" Length of plain part top 80" Thickness of plates crown 3 3/4" bottom 6 1/4"Description of longitudinal joint weld No. of strengthening rings one Working pressure of furnace by the rules 115 Combustion chamberplates: Material steel Thickness: Sides 1/2" Back 1/2" Top 1/2" Bottom 5/8" Pitch of stays to ditto: Sides 8 1/2" x 9" Back 8 1/2" x 9"Top 8 1/2" x 8 1/2" If stays are fitted with nuts or riveted heads nuts Working pressure by rules 100 Material of stays steel Diameter atsmallest part 1.32" Area supported by each stay 76.5 sq in Working pressure by rules 127 End plates in steam space: Material steel Thickness 3 1/2"Pitch of stays 17" x 16 1/2" How are stays secured D. N. & W. S. Working pressure by rules 103 Material of stays steel Diameter at smallest part 3.43"Area supported by each stay 280.5 sq in Working pressure by rules 127 Material of Front plates at bottom steel Thickness 3/4" Material ofLower back plate steel Thickness 1 1/16" Greatest pitch of stays 13 1/2" x 9" Working pressure of plate by rules 126 Diameter of tubes 3"Pitch of tubes 4 1/4" x 4 1/8" Material of tube plates steel Thickness: Front 25/32" Back 1 1/16" Mean pitch of stays 10 1/16" Pitch across widewater spaces 14" Working pressures by rules 111 lbs Girders to Chamber tops: Material Steel Depth and thickness ofgirder at centre 6" x 2 @ 5/8" Length as per rule 27 13/16" Distance apart 8 1/2" Number and pitch of Stays in each 2 @ 8 1/2"Working pressure by rules 105 Superheater or Steam chest; how connected to boiler ✓ Can the superheater be shut off and the boiler workedseparately ✓ Diameter ✓ Length ✓ Thickness of shell plates ✓ Material ✓ Description of longitudinal joint ✓ Diam. of rivetholes ✓ 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 ✓

The foregoing is a correct description,
 FOR WORKMAN, CLARK & CO., LIMITED Manufacturer.

Dates of Survey ✓ During progress of work in shops - - -
 while building ✓ During erection on board vessel - - -

Is the approved plan of boiler forwarded herewith yesTotal No. of visits ✓

GENERAL REMARKS (State quality of workmanship, opinions as to class, &c.)

Please see Rpt 4.

Survey Fee ... £ : : When applied for, 19...
 Travelling Expenses (if any) £ : : When received, 19...

A. S. Thomas
 Engineer Surveyor to Lloyd's Register of British and Foreign Shipping.

Committee's Minute

FRI. DEC. 29. 1911

Assigned

see Minute on Bel. Rpt 7024 attached



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