

REPORT ON BOILERS.

No. 9643

Received at London Office

Date of writing Report

191

When handed in at Local Office 14 - 12 - 1926 Port of Belfast

No. in Survey held at Reg. Book.

Belfast

Date, First Survey

see mch report. Last Survey (Number of Visits)

191

15761 on the STEEL TWIN SC. LLANDAFF CASTLE

Tons Gross 10900 Net 6700

Master Built at Belfast By whom built Workman Clark & Co. Ltd. When built 1926

Engines made at Belfast By whom made Workman Clark & Co. Ltd. When made 1926

Boilers made at Belfast By whom made Workman Clark & Co. Ltd. When made 1926

Registered Horse Power Owners Union Castle Mail S.S. Co. Ltd. Port belonging to London

MULTITUBULAR BOILERS—MAIN, SINGLE-ENDED, AUXILIARY OR DONKEY.—Manufacturers of Steel W. Beardmore & Co. Ltd. ✓

Letter for record ✓ Total Heating Surface of Boilers 5160 sq ft Is forced draft fitted No ✓ No. and Description of

Boilers Two single ended cylindrical Working Pressure 220 lbs Tested by hydraulic pressure to 380 lbs Date of test 7.8.26

No. of Certificate 887 Can each boiler be worked separately Yes Area of fire grate in each boiler 63.25 sq ft No. and Description of

Safety valves to each boiler Two spring loaded high lift Area of each valve 4.91 sq ft Pressure to which they are adjusted 220 lbs

Are they fitted with easing gear Yes In case of donkey boilers, state whether steam from main boilers can enter the donkey boiler ✓

Smallest distance between boilers or uptakes and bunkers or woodwork 2'-1 1/2" Internal diam. of boilers 15'-8" Length 11'-11"

Material of shell plates Steel Thickness 1 1/2" Range of tensile strength 29-33 tons Are the shell plates welded or flanged No ✓

Description of riveting: cir. seams Double long. seams Treble 27.5 Diameter of rivet holes in long. seams 1 1/2" Pitch of rivets 10 1/4"

Width of butt straps 22 1/2" Per centages of strength of longitudinal joint rivets 88.4 plate 85.35 Working pressure of shell by

Rules 220 lbs Size of manhole in shell 16" x 12" Size of compensating ring 39" x 36 1/8" x 1 1/2" No. and Description of Furnaces in each

Boiler 3 Suspension Bulk Material Steel Rule Outside diameter 46 5/16" Length of plain part top / bottom Thickness of plates crown 2 1/2" bottom 3 1/2"

Description of longitudinal joint Weld No. of strengthening rings Working pressure of furnace by the rules 220 lbs Combustion chamber

Plates: Material Steel Thickness: Sides 1 1/2" Back 2 1/2" Top 1 1/2" Bottom 7/8" Pitch of stays to ditto: Sides 8 1/4" x 9" Back 8 1/4" x 7 1/2"

Top 8 1/4" x 9" If stays are fitted with nuts or riveted heads Nuts Working pressure by rules 222 lbs Material of stays Steel Diameter at

Smallest part 1 1/2" Area supported by each stay 70.125" Working pressure by rules 222 lbs End plates in steam space: Material Steel Thickness 1 1/4"

Pitch of stays 20 1/4" x 15" How are stays secured Double Nuts Working pressure by rules 230 lbs Material of stays Steel Diameter at smallest part 5.940"

Area supported by each stay 294 sq in Working pressure by rules 222 lbs Material of Front plates at bottom Steel Thickness 1" Material of

Lower back plate Steel Thickness 3/4" Greatest pitch of stays 14" x 8 1/4" Working pressure of plate by rules 255 lbs Diameter of tubes 2 1/4"

Pitch of tubes 4" x 3 3/8" Material of tube plates Steel Thickness: Front 1" Back 1 1/2" Mean pitch of stays 9 3/8" Pitch across wide

Water spaces 14" Working pressures by rules 237 lbs Girders to Chamber tops: Material Steel Depth and thickness of

Girder at centre 11 1/2" x 1 1/2" Length as per rule 40 1/2" Distance apart 8 1/4" Number and pitch of Stays in each Three 9"

Working pressure by rules 222 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

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

Total No. of visits

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

These Boilers have been constructed under special survey. The materials and workmanship are sound and good. They have been efficiently installed and fastened on the vessel and the safety valves have been adjusted under steam.

Survey Fee ... £ When applied for, 191

Travelling Expenses (if any) ... £ When received, 191

Committee's Minute

Assigned

TUES. 7 DEC 1926

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

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