

REPORT ON BOILERS.

No. 15461.

WED. 16 SEP 1908

Date of writing Report

19

When handed in at Local Office

10th Sept. 1908 Port of Greenock

Received at London Office

No. in Survey held at

Greenock

Reg. Book.

Date, First Survey

10th Jan 1907

Last Survey

5th Sept 1908

(Number of Visits

98)

134 on the SCREW STEAMER

BANNOCKBURN.

(Number of Visits

98)

Gross

4935.63.

Tons

Net 3155.75.

Master H. A. Willett

Built at Greenock.

By whom built Russell & Co.

When built 1908

Engines made at Greenock

By whom made

Rankin & Blackmore

when made

1908.

Boilers made at Greenock.

By whom made

Rankin & Blackmore

when made

1908.

Registered Horse Power

Owners H. Shankland & Co.

Port belonging to Greenock.

MULTITUBULAR BOILERS ~~MAIN, AUXILIARY OR~~ DONKEY. — Manufacturers of Steel Steel 604 of Scotland.(Letter for record S. ✓) Total Heating Surface of Boilers 904^{sq} ft. Is forced draft fitted No. ✓ No. and Description ofBoilers One Cylindrical boiler single ✓ Working Pressure 100^{lb} Tested by hydraulic pressure to 200^{lb} Date of test 24/6/08.

No. of Certificate 900 Can each boiler be worked separately ✓ Area of fire grate in each boiler 30 sq. ft. No. and Description of

safety valves to each boiler 2: Spring loaded ✓ Area of each valve 5.94^{sq} in. Pressure to which they are adjusted 105^{lb} ✓

Are they fitted with easing gear Yes. ✓ In case of donkey boilers, state whether steam from main boilers can enter the donkey boiler No. ✓

Smallest distance between boilers or uptakes and bunkers or woodwork About 10". ✓ Mean dia. of boilers 10'6". ✓ Length 9'6". ✓

Material of shell plates Steel ✓ Thickness 2 1/8" ✓ Range of tensile strength 28 to 32 tons ✓ Are the shell plates welded or flanged No. ✓

Descrip. of riveting: cir. seams Lap single long. seams Butt Straps Diameter of rivet holes in long. seams 3/4" ✓ Pitch of rivets 4 1/2". 2 3/2". ✓

Lap of plates or width of butt straps 4 1/8". ✓ Per centages of strength of longitudinal joint rivets 83.6 Working pressure of shell by

rules 100^{lb} Size of manhole in shell 16" x 12" ✓ Size of compensating ring 29 1/2" x 25" x 5/8" ✓ No. and Description of Furnaces in each

boiler 2: plain ✓ Material Steel ✓ Outside diameter 34 1/2" ✓ Length of plain part top 75". ✓ Thickness of plates crown 14". ✓

Description of longitudinal joint Butt Straps No. of strengthening rings None Working pressure of furnace by the rules 109^{lb} ✓ Combustion chamber

plates: Material Steel ✓ Thickness: Sides 1 1/2" ✓ Back 3/4" ✓ Top 1 1/2" ✓ Bottom 5/8" ✓ Pitch of stays to ditto: Sides 9 x 9" ✓ Back 10 x 10" ✓

Top 9 x 9" ✓ If stays are fitted with nuts or riveted heads Nuts. ✓ Working pressure by rules 104^{lb} ✓ Material of stays Steel ✓ Diameter atsmallest part 1 3/8" ✓ Area supported by each stay 100^{sq} in. ✓ Working pressure by rules 118^{lb} ✓ End plates in steam space: Material Steel ✓ Thickness 7/8" ✓Pitch of stays 18" x 15" ✓ How are stays secured Nuts & washers. ✓ Working pressure by rules 109^{lb} ✓ Material of stays Steel ✓ Diameter at smallest part 2 1/8" bare.Area supported by each stay 240^{sq} in. ✓ Working pressure by rules 127^{lb} ✓ Material of Front plates at bottom Steel ✓ Thickness 1 1/8" ✓ Material ofLower back plate Steel ✓ Thickness 7/8" ✓ Greatest pitch of stays 10". ✓ Working pressure of plate by rules 109^{lb} ✓ Diameter of tubes 3 1/2". ✓

Pitch of tubes 4 1/4" x 4 1/4" ✓ Material of tube plates Steel ✓ Thickness: Front 1 1/8" with 1/2" Back 3/4" ✓ Mean pitch of stays 14 1/4" ✓ Pitch across wide

water spaces 14 1/4" ✓ Working pressures by rules 155^{lb} 100^{lb} ✓ Girders to Chamber tops: Material Steel ✓ Depth and thickness of

girder at centre 4" x 1" ✓ Length as per rule 28" ✓ Distance apart 9" ✓ Number and pitch of Stays in each 2: 9" ✓

Working pressure by rules 109^{lb} ✓ Superheater or Steam chest: how connected to boiler None. ✓ 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,

Rankin & Blackmore Manufacturer.

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

See Accompanying

Machinery report.

Is the approved plan of boiler forwarded herewith Yes.

Total No. of visits

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

This Boiler has been built under Special Survey and the materials and workmanship are good.

For recommendations, see preceding sheet.

Survey Fee ... £ : : When applied for, 19.

Travelling Expenses (if any) £ : : When received, 19.

Wm. R. Austin

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

Committee's Minute GLASCOW 15 SEP. 1908

Assigned See accompanying Report. C. B. B.



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Foundation