

Rpt. 5a.

REPORT ON BOILERS.

WED. FEB. 22 1922

No. 41162.

WED. 15 JUN. 1921

Date of writing Report 8.6.1921 When handed in at Local Office 8.6.1921 Port of Glasgow
 No. in Survey held at Glasgow
 Reg. Book. on the S.S. "Lady Anstruther"
 Master Built at Dublin By whom built Dublin Shipbuilders Ltd (19) When built 1922
 Engines made at Coashbridge By whom made W. Beardmore & Co Ltd (575) When made 1922
 Boilers made at Glasgow By whom made D. Rowan & Co (B303) When made 1921
 Registered Horse Power Owners Hobbs' Explosives & Co (Glasgow) Port belonging to Glasgow

MULTITUBULAR BOILERS—MAIN, AUXILIARY OR DONKEY.—Manufacturers of Steel The Glasgow Iron Steel & Foundry Co Ltd
 (Letter for record S) Total Heating Surface of Boilers 2100 sq ft Is forced draft fitted No. and Description of Boilers One Single Ended Working Pressure 180 lb Tested by hydraulic pressure to 360 lb Date of test 4.6.21

No. of Certificate 15846 Can each boiler be worked separately Area of fire grate in each boiler 57 1/4 sq ft No. and Description of safety valves to each boiler Two spring loaded Area of each valve 7 sq in Pressure to which they are adjusted 185 lb

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 bulkhead or woodwork 18 in Int dia. of boilers 14 1/2 in Length 10 1/2 in

Material of shell plates Steel Thickness 1 1/16 in Range of tensile strength 28/32 tons Are the shell plates welded or flanged No

Descrip. of riveting: cir. seams D.R. long. seams T.R., D.B.S. Diameter of rivet holes in long. seams 1 1/2 in Pitch of rivets 8 1/16 in

Lap of plates or width of butt straps 18 3/4 in Per centages of strength of longitudinal joint rivets 85.8 plate 86.8 Working pressure of shell by rules 181

Size of manhole in shell 16 in x 12 in Size of compensating ring 34 in x 30 in No. and Description of Furnaces in each boiler 3 Deighton Material Steel Outside diameter 3' 10 3/32 in Length of plain part top L bottom L Thickness of plates crown 2 1/2 in bottom 6 1/4 in

Description of longitudinal joint Weld No. of strengthening rings 4 Working pressure of furnace by the rules 184 lb Combustion chamber plates: Material Steel Thickness: Sides 2 3/32 in Back 5/8 in Top 2 3/32 in Bottom 2 3/32 in Pitch of stays to ditto: Sides 10 3/8 in x 9 1/2 in Back 9 1/16 in x 8 in

Top 10 3/8 in x 9 1/2 in If stays are fitted with nuts or riveted heads Nuts Working pressure by rules 180 Material of stays Steel Area at smallest part 1 1/16 in

Area supported by each stay 74 1/2 sq in Working pressure by rules 190 lb End plates in steam space: Material Steel Thickness 1 3/32 in

Pitch of stays 19 1/4 in x 20 1/2 in How are stays secured D.R. Nuts Working pressure by rules 181 5/16 lb Material of stays Steel Area at smallest part 7 1/16 in

Area supported by each stay 365 1/2 sq in Working pressure by rules 201 1/16 lb Material of Front plates at bottom Steel Thickness 2 3/32 in Material of Lower back plate Steel Thickness 3 1/32 in Greatest pitch of stays 13 in x 8 in

Working pressure of plate by rules 81 1/16 lb Diameter of tubes 3 1/4 in Pitch of tubes 4 1/2 in x 4 3/8 in Material of tube plates Steel Thickness: Front 2 3/32 in Back 2 3/32 in Mean pitch of stays 13 1/2 in x 8 3/4 in

Pitch across wide water spaces 1 1/4 in Working pressures by rules 182 Girders to Chamber tops: Material Steel Depth and thickness of girder at centre 8 1/2 in x 16 (2) Length as per rule 2' 8 3/32 in Distance apart 9 1/2 in

Number and pitch of Stays in each 2 @ 10 3/8 in Working pressure by rules 180 Steam dome: description of joint to shell None % of strength of joint

Diameter Thickness of shell plates Material Description of longitudinal joint Diam. of rivet holes Pitch of rivets Working pressure of shell by rules Crown plates Thickness How stayed

SUPERHEATER. Type Date of Approval of Plan Tested by Hydraulic Pressure to

Date of Test Is a Safety Valve fitted to each Section of the Superheater which can be shut off from the Boiler

Diameter of Safety Valve Pressure to which each is adjusted Is Easing Gear fitted

The foregoing is a correct description,

D. Rowan & Co Ltd Manufacturer.

Dates of Survey During progress of work in shops - - 1921 Jan 25 Feb 16 Mar 8 Apr 14 25 May 30 Jun 7
 while building During erection on board vessel - - -

Is the approved plan of boiler forwarded herewith

Total No. of visits 7.

GENERAL REMARKS (State quality of workmanship, opinions as to class, &c.) Boiler has been built under special

Survey. Materials & workmanship are good. This boiler has been fitted on board in an efficient manner, tried under working conditions and found satisfactory.

Survey Fee ... £ 14 : - : When applied for, 14 6. 1921

Travelling Expenses (if any) £ : : When received, 9.87 1921

Committee's Minute

Assigned

GLASGOW 14 JUN 1921

TRANSMIT TO LONDON

GLASGOW

Engineer Surveyor to Lloyd's Register of Shipping.

See L.R. 1922

FRI. 24 FEB. 1922

See Minute on L.R. 4/76

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