

# REPORT ON BOILERS.

WED. FEB 22 1922

No. 41162

Received at London Office

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 Date, First Survey 25th Jan 1921 Last Survey 4 June 1921

Reg. Book. on the S.S. "Lady Anstruther" (Number of Visits 7)

Master Built at Dublin By whom built Dublin Shipbuilders Ltd (19) When built 1920

Engines made at Coalsbridge By whom made W. Beardmore & Co Ltd (575) When made 1920

Boilers made at Glasgow By whom made D. Rowan & Co (B303) When made 1921

Registered Horse Power Owners Nobels' Explosives Co Ltd (Glasgow) Port belonging to Glasgow

**MULTITUBULAR BOILERS—MAIN, AUXILIARY OR DONKEY.**—Manufacturers of Steel The Glasgow Iron Steel Co Ltd Motherwell Iron Steel Co Ltd

(Letter for record S) Total Heating Surface of Boilers 2100 sq ft Is forced draft fitted No

Boilers One Single Ended Working Pressure 180 lbs Tested by hydraulic pressure to 360 lbs Date of test 4.6.21

No. of Certificate 15846 Can each boiler be worked separately Yes 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 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 ~~bulkhead~~ woodwork 18 in Int Mean dia. of boilers 14 1/9 in Length 10 1/6 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., P.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

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 lbs 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 x 9 1/2 in Back 9 1/16 x 8 in

Top 10 3/8 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 sq in Area supported by each stay 74 1/2 sq in Working pressure by rules 190 lbs

Pitch of stays 19 1/4 x 20 1/2 in How are stays secured Double nuts Working pressure by rules 181 5/8 lbs Material of stays Steel Area at smallest part 4 1/16 sq in

Area supported by each stay 365 3/8 sq in Working pressure by rules 201 lbs Material of Front plates at bottom Steel Thickness 2 9/32 in Material of Lower back plate Steel Thickness 2 5/32 in Greatest pitch of stays 13 in x 8 in Working pressure of plate by rules 81 lbs 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 2/32 in Back 2 3/32 in Mean pitch of stays 13 1/2 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 1 3/16 (2) Length as per rule 2 1 1/8 x 2 1/8 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,

Dandloway & 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, 9.8.1921

Committee's Minute Assigned

GLASGOW 14 JUN 1921

TRANSMIT TO LONDON

GLASGOW 15 JUN 1922

See pp. 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62, 63, 64, 65, 66, 67, 68, 69, 70, 71, 72, 73, 74, 75, 76, 77, 78, 79, 80, 81, 82, 83, 84, 85, 86, 87, 88, 89, 90, 91, 92, 93, 94, 95, 96, 97, 98, 99, 100

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