

pt. 5.

REPORT ON BOILERS.

No. 52892.

WED. 29 MAY 1907

Port of Newcastle on Tyne Registered at London Office

No. in Survey held at Newcastle Date, first Survey 26 Feb 1907 Last Survey 29 April 1907
 No. of Book. 13 On the Steel S. H. City of London Tons { Gross 88 Net 14
 Built at Seely By whom built Cochrane & Sons When built 1907
 Engines made at Luton By whom made Vaughall & West Hydraulic Eng Co Ltd when made 1907
 Boilers made at Newcastle By whom made R. Stephenson & Co Ltd when made 1907
 Registered Horse Power 100 Owners London & Berwick S. F. Co Ltd Port belonging to Peterhead

ULTITUBULAR BOILERS—MAIN, AUXILIARY OR DONKEY.—Manufacturers of Steel J. Spencer & Son

Letter for record S Total Heating Surface of Boilers 720 Is forced draft fitted No No. and Description of Boilers One - cyl. mlt. S Ind Working Pressure 140 Tested by hydraulic pressure to 280 Date of test 29-4-07
 No. of Certificate 7471 Can each boiler be worked separately ✓ Area of fire grate in each boiler 28 No. and Description of Safety valves to each boiler Two Spring Area of each valve 3.14 sq ft Pressure to which they are adjusted 140 lbs
 Are they fitted with easing gear No 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 4" Mean dia. of boilers 9'-6" Length 9'-13 1/4"
 Material of shell plates S Thickness 3/4 Range of tensile strength 28/32 Are the shell plates welded or flanged No
 Descrip. of riveting: cir. seams d lap long. seams d shop Diameter of rivet holes in long. seams 1 Pitch of rivets 4
 Width of plates or width of butt straps 10 Per centages of strength of longitudinal joint rivets 78 plate 75 Working pressure of shell by rules 144
 Size of manhole in shell 16 x 12 Size of compensating ring Hanger No. and Description of Furnaces in each boiler 2 Plain Material S Outside diameter 36 5/8 Length of plain part top 68 bottom 73 1/2 Thickness of plates crown 19/32 bottom 19/32
 Description of longitudinal joint Weld No. of strengthening rings ✓ Working pressure of furnace by the rules 141 Combustion chamber Material S Thickness: Sides 9/16 Back 19/32 Top 9/16 Bottom 13/16 Pitch of stays to ditto: Sides 8 1/2 x 8 1/2 Back 9 x 8 1/2
 If stays are fitted with nuts or riveted heads nut Working pressure by rules 151 Material of stays S Diameter at smallest part 4-11
 Area supported by each stay 76.5 Working pressure by rules 151 End plates in steam space: Material S Thickness 7/8
 How are stays secured th. R. W Working pressure by rules 155 Material of stays S Diameter at smallest part 4-11
 Area supported by each stay 281 Working pressure by rules 146 Material of Front plates at bottom S Thickness 7/8 Material of cover back plate S Thickness 7/8 Greatest pitch of stays in plain Working pressure of plate by rules 140 Diameter of tubes 3 1/4
 Material of tube plates S Thickness: Front 7/8 Back 3/4 Mean pitch of stays 9 Pitch across wide spaces 13 1/2 Working pressures by rules 150 Girders to Chamber tops: Material S Depth and thickness of boiler at centre 7 x 13/8 Length as per rule 26 1/2 Distance apart 8 Number and pitch of Stays in each 2 - 8 1/2
 Working pressure by rules 174 Superheater: Steam chest: how connected to boiler d R. W Can the superheater be shut off and the boiler worked separately ✓ Diameter 30 Length 24 Thickness of shell plates 1/2 Material S Description of longitudinal joint Shop Diam. of rivets 15/16 Pitch of rivets 2 1/4 Working pressure of shell by rules 213 Diameter of flue ✓ Material of flue plates ✓ Thickness —
 Stiffened with rings ✓ Distance between rings ✓ Working pressure by rules ✓ End plates: Thickness 3/4 How stayed 2 Stays & Hanger
 Working pressure of end plates 140 Area of safety valves to superheater ✓ Are they fitted with easing gear ✓

VERTICAL DONKEY BOILER

No. — Description — Manufacturers of steel —
 Made at — By whom made — When made — Where fixed — Working pressure —
 Tested by hydraulic pressure to — Date of test — No. of Certificate — Fire grate area — Description of safety valves —
 No. of safety valves — Area of each — Pressure to which they are adjusted — If fitted with easing gear — If steam from main boilers can enter the donkey boiler —
 Dia. of donkey boiler — Length — Material of shell plates — Thickness — Range of tensile strength —
 Descrip. of riveting long. seams — Dia. of rivet holes — Whether punched or drilled — Pitch of rivets —
 No. of plating — Per centage of strength of joint Rivets — Plates — Working pressure of shell by rules — Thickness of shell crown plates —
 Dia. of do. — No. of Stays to do. — Dia. of stays — Diameter of furnace Top — Bottom — Length of furnace —
 Thickness of furnace plates — Description of joint — Working pressure of furnace by rules — Thickness of furnace crown plates —
 Radius of do. — Stayed by — Diameter of uptake — Thickness of uptake plates —
 Thickness of water tubes —

The foregoing is a correct description,

For ROBERT STEPHENSON & CO., LIMITED Manufacturer.

Dates { During progress of work in shops - - - 1907 Feb. 25, Mar. 6, 15, 25, Apr. 28, 3, 1906, 29
 Survey while building { During erection on board vessel - - -
 Total No. of visits 10

Is the approved plan of main boiler forwarded herewith No retained for duplicate
 " " " donkey " " " "

W1412-0020

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

The boiler has been built under special survey, the material & work is good.

The boiler has been fitted on board tested under steam & found satisfactory, and the machinery is eligible in opinion to be classed with the notation of *Lm 6.5.07* in Register Book, when safety valve easing gear is fitted.
James Barclay

Certificate (if required) to be sent to the Committee's Minute.

The amount of Entry Fee...	£	:	:	When applied for.
Special	£	2	8	10 MAY 1907
Donkey Boiler Fee ...	£	:	:	When received.
Travelling Expenses (if any) £	:	:	:	13/5/07

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

Committee's Minute

FRI. 14 JUN 1907

Assigned

Lm 6.5.07



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Foundation