

pt. 5.

REPORT ON BOILERS.

No. 52891.

11th 1904

WED. 29 MAY 1907

Port of Newcastle on Tyne Received at London Office

No. in Survey held at Newcastle Date, first Survey 25 Feb. 1907 Last Survey 29 April 1907
 Reg. Book. (Number of Visits 10+10) May 25/07 88
 Staff on the Steel Sec R City of Edinburgh Tons Gross 20 Net 14
 Master Built at Selby By whom built Cochrane & Sons When built 1907
 Engines made at Luton By whom made Vauhall & West Hydraulic Eng Co Ltd when made 1907
 Boilers made at Nine By whom made R^d Stephenson & Co when made 1907
 Registered Horse Power Owners London & Peterhead S. F. Co Ltd Port belonging to Peterhead

MULTITUBULAR BOILERS—MAIN, AUXILIARY OR DONKEY—Manufacturers of Steel J Spence & Son

Letter for record S Total Heating Surface of Boilers 720 sq ft Is forced draft fitted no No. and Description of Boilers The. Cyl. Mult S Ind. Working Pressure 140 Tested by hydraulic pressure to 280 Date of test 29-4-07
 No. of Certificate 7470 Can each boiler be worked separately — Area of fire grate in each boiler 28 sq ft No. and Description of 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 —
 Greatest distance between boilers or uptakes and bunkers or woodwork 4 Mean dia. of boilers 9-6 Length 9-13/4
 Material of shell plates S Thickness 3/4 Range of tensile strength 28/32 Are the shell plates welded or flanged no
 Direction of riveting: cir. seams d lap long. seams d shop Diameter of rivet holes in long. seams 1 Pitch of rivets 4
 Width of butt straps 10 Per centages of strength of longitudinal joint 78 Working pressure of shell by rules 75
 Size of manhole in shell 144 Size of compensating ring flanged No. and Description of Furnaces in each Boiler 2 Plain Material S Outside diameter 36 5/8 Length of plain part 68 Thickness of plates 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
8 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 1-45 Area supported by each stay 76 5/8 Working pressure by rules 151 End plates in steam space: Material S Thickness 7/8
 Diameter of stays 6 x 17 1/2 How are stays secured d R^d W Working pressure by rules 153 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 rear back plate S Thickness 7/8 Greatest pitch of stays no for plain Working pressure of plate by rules 140 Diameter of tubes 3 1/2
 Number of tubes 4 1/2 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 girder 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 or Steam chest: how connected to boiler d R^d 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 Slap Diam. of rivet 1 5/16 Pitch of rivets 2 1/4 Working pressure of shell by rules 213 Diameter of flue — Material of flue plates ✓ Thickness —
 Flue fitted with rings ✓ Distance between rings ✓ Working pressure by rules ✓ End plates: Thickness 3/4 How stayed 25 stays
 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

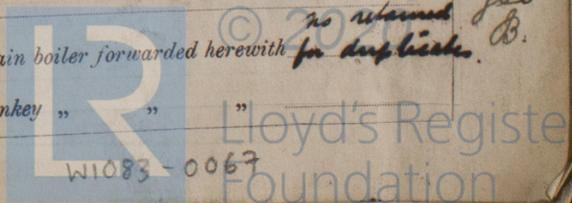
Location at — By whom made — When made — Where fixed — Working pressure —
 Tested by hydraulic pressure to — Date of test — No. of Certificate — Fire grate area — Description of safety valves —
 Area of each safety valve — Pressure to which they are adjusted — If fitted with easing gear — If steam from main boilers can enter the donkey boiler —
 Dia. of donkey boiler — Length — Material of shell plates — Thickness — Range of tensile strength —
 Description of riveting long. seams — Dia. of rivet holes — Whether punched or drilled — Pitch of rivets —
 Per centage of strength of joint — Rivets — Working pressure of shell by rules — Thickness of shell crown plates —
 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 —

The foregoing is a correct description,
 FOR ROBERT STEPHENSON & CO. LD. Manufacturer.

SECRETARY

Dates: During progress of work in shops 1907 Feb. 25. Mar. 6. 15. 25. Apr. 28. 13. 19. 26. 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 " " —



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

The boiler has been built under special survey, the material & workmanship is good -

The boiler has been fitted on board, tested under steam and found satisfactory, and the machinery is eligible in my opinion to be classed with the notation of *L.M.C. 5-0* in Register Book, when safety valve easing gear is fitted

James Barclay

FLAT PLATE (If Bar Keel) GARBOARD

State actual thickness way of Deck Bottom

DOUBLING

Length and thickness

POOP SIDE

RAISED QUARTERS

BRIDGE SIDE

FORECASTLE

LENGTHS

Main

manufacture

Plates, out

South

Has the Ste

FRAMES EXPOSED

REVERSED

LOWER MASTS

Bowsprit

Topmasts, Yards

Rigging, Masts

Sails.

Equipments

Number of Certificate.

1443

1448

1453

Number Certificate

242

Iron Steam or Steel Work

Boats

Pumps

Windlasses

Engine

What are

Coal Bins

Number

Ceiling

Cargo Lifting

State size

Number

Bulwarks

The above

Builder's

Rpt. 1A.

Certificate (if required) to be sent to

(The Signatories are requested not to write on or below the space for Committee's Minute.)

The amount of Entry Fee... £ : : When applied for, 10 MAY 1907
Special ... *hvacaf* £ 2 : 8
Donkey Boiler Fee ... £ : :
Travelling Expenses (if any) £ : :
When received, 13/5/07 17.6.07

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

Committee's Minute FRI. 14 JUN 1907

Assigned + L.M.C. 5.07



Date of writing
No. in Series
Reg. Book.
112 Supp. of
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