

pt. 5.

REPORT ON BOILERS.

No. 52891.

11th 1907

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. Steel Sec R City of Edinburgh (Number of Visits 10+10) May 25/07 88
 Staff on the Steel Sec R City of Edinburgh Tons 14
 Master Selby Built at Selby By whom built Cochrane & Sons When built 1907
 Engines made at Luton By whom made Taunhall & West Hydraulic Eng Co Ltd when made 1907
 Boilers made at Nine By whom made R^g Stephenson & Co when made 1907
 Registered Horse Power 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 ϕ Is forced draft fitted no No. and Description of
 Boilers The. Cap. Mult S Ind. Working Pressure 140 Tested by hydraulic pressure to 280 Date of test 29-4-07
 of Certificate 7470 Can each boiler be worked separately — Area of fire grate in each boiler 28 ϕ No. and Description of
 valves to each boiler Two Spring Area of each valve 3.14 \square Pressure to which they are adjusted 140 lbs
 they fitted with easing gear No In case of donkey boilers, state whether steam from main boilers can enter the donkey boiler —
 least 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
 Rivets of riveting: cir. seams d lap long. seams d shop Diameter of rivet holes in long. seams 1 Pitch of rivets 4
 plates or width of butt straps 10 Per centages of strength of longitudinal joint 78 Working pressure of shell by
144 Size of manhole in shell 16 x 12 Size of compensating ring flanged No. and Description of Furnaces in each
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
 least part 1-45 Area supported by each stay 76.5 Working pressure by rules 151 End plates in steam space: Material S Thickness 7/8
 of stays 16 x 17 1/2 How are stays secured d R^g W Working pressure by rules 153 Material of stays S Diameter at smallest part 4-11
 supported by each stay 281 Working pressure by rules 146 Material of Front plates at bottom S Thickness 7/8 Material of
 back plate S Thickness 7/8 Greatest pitch of stays as per plan Working pressure of plate by rules 140 Diameter of tubes 3 1/2
 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
 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^g W Can the superheater be shut off and the boiler worked
 rately ✓ Diameter 30 Length 24 Thickness of shell plates 1/2 Material S Description of longitudinal joint Shop Diam. of rivet
15/16 Pitch of rivets 2 1/4 Working pressure of shell by rules 213 Diameter of flue — Material of flue plates ✓ Thickness —
 ffitened with rings ✓ Distance between rings ✓ Working pressure by rules ✓ End plates: Thickness 3/4 How stayed 25 lbs
 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
 at By whom made When made Where fixed Working pressure
 by hydraulic pressure to Date of test No. of Certificate Fire grate area Description of safety valves
 of safety valves Area of each Pressure to which they are adjusted If fitted with easing gear If steam from main boilers can
 the donkey boiler Dia. of donkey boiler Length Material of shell plates Thickness Range of tensile
 gth Descrip. of riveting long. seams Dia. of rivet holes Whether punched or drilled Pitch of rivets
 of plating Per centage of strength of joint Rivets Working pressure of shell by rules Thickness of shell crown plates
 us of do. No. of Stays to do. Dia. of stays Diameter of furnace Top Bottom Length of furnace
 kness of furnace plates Description of joint Working pressure of furnace by rules Thickness of furnace crown
 ates 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. 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 yes

" donkey "

Lloyd's Register Foundation

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 *K.L.M. 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 Donkey
Bottom

DOUBLING

Length
and
thickness

POOP SIDE

RAISED QUARTER

BRIDGE SIDE

FORECASTLE

LENGTHS

Main

manufacture

Plates, out

South

Has the Ste

FRAMES EX

REVERSED

LOWER MASTS

Bowsprit

Topmasts, &c.

Rigging, Main

Sails.

Equipmen

Number of

Certificate.

1443

1448

1453

Number

Certificate

242

Iron Steam

or Steel W

Boats

Pumps,

Windlas

Engine

What ar

Coal Bu

Number

Ceiling

Cargo l

State siz

Number

Bulwar

The above

Builder's

Rpt. 1A.

Certificate (if required) to be sent to

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

Committee's Minute

FRI. 14 JUN 1907

Assigned

+ L.M. 5.07

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



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Foundation