

Mem R^c Stephenson & Co No 587 Boilers

pt. 5.

REPORT ON BOILERS.

No. 52898

SAT. 8 JUN 1907

Port of Newcastle on Tyne Received at London Office

No. in Survey held at Newcastle Date, first Survey Apr 3 1907 Last Survey 6 May 1907
 Leg. Book. 380 (Number of Visits 6)
 Name of vessel Steel S.S. Co. City of Perth Gross Tons 88 Net Tons 14
 Built at Selby By whom built Bochane Sons When built 1907
 Engines made at Luton By whom made The Vauxhall & West Hydraulic Eng. Co. Ltd When made 1907
 Boilers made at Newcastle By whom made R^c Stephenson & Co. L^d when made 1907
 Registered Horse Power 35 Owners London & Peterhead S. F. Co. Ltd Port belonging to Peterhead

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

Letter for record S Total Heating Surface of Boilers 720 ft² Is forced draft fitted No No. and Description of Boilers One Cyl^r 5 End Working Pressure 140 Tested by hydraulic pressure to 280 Date of test 6-5-07
 No. of Certificate 7479 Can each boiler be worked separately ✓ Area of fire grate in each boiler 28 ft² No. and Description of Safety valves to each boiler Two Spring Area of each valve 3.14 sq" Pressure to which they are adjusted 140 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 bunkers or woodwork 4" Mean dia. of boilers 9'-6" Length 9'-1 3/4"
 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 step Diameter of rivet holes in long. seams 1" Pitch of rivets 4"
 Width of butt straps 10" Per centages of strength of longitudinal joint rivets 78 Working pressure of shell by rules 144 plate 75
 Size of manhole in shell 16 x 12 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 top 68" Thickness of plates crown 19/32" bottom 7 3/4"
 Description of longitudinal joint Weld No. of strengthening rings ✓ Working pressure of furnace by the rules 141 Combustion chamber plates: 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" Top 8 x 8 1/2"
 If stays are fitted with nuts or riveted heads Nuts Working pressure by rules 151 Material of stays S Diameter at smallest part 1-4 5/8" Area supported by each stay 76.5 Working pressure by rules 151 End plates in steam space: Material S Thickness 7/8"
 Pitch of stays 16 x 17 1/2" How are stays secured d n. R^c 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 lower back plate S Thickness 7/8" Greatest pitch of stays as per plan Working pressure of plate by rules 140 Diameter of tubes 3 1/4"
 Pitch 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 water spaces 13 1/2" Working pressures by rules 150 Girders to Chamber tops: Material S Depth and thickness of girder at centre 9 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 n^c 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 5 lap Diam. of rivet holes 15/16" Pitch of rivets 2 1/4" Working pressure of shell by rules 213 Diameter of flue ✓ Material of flue plates ✓ Thickness ✓
 If stiffened with rings ✓ Distance between rings ✓ Working pressure by rules ✓ End plates: Thickness 5-3/4" How stayed 2 Stays & Flanged
 Working pressure of end plates 140 Area of safety valves to superheater ✓ Are they fitted with easing gear ✓

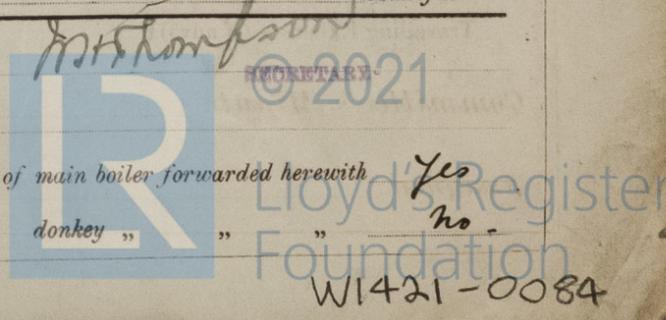
VERTICAL DONKEY BOILER—No. Description Manufacturers of steel

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
 Lap of plating Per centage of strength of joint Rivets Working pressure of shell by rules Thickness of shell crown plates
 Radius 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, ROBERT STEPHENSON & CO. LIMITED Manufacturer.

Dates of Survey while building
 During progress of work in shops - - - 1907. Apr 3, 5, 13, 19, 26, May 6
 During erection on board vessel - - -
 Total No. of visits 6

Is the approved plan of main boiler forwarded herewith Yes
 " " " donkey " " No



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

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

This boiler has been fitted on board tested under steam and found satisfactory, and now eligible in my opinion to be classed with the notation of **4.L.N.6.6.07** in the Register Book.

James Barclay
4.6.07

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

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

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

Committee's Minute

TUES. 11 JUN 1907

Assigned

*cc Minute on
Don Rpt. no 69705-*



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Foundation