

Rpt. 52

REPORT ON BOILERS.

Hpl. No. 13130.
No. 51682.Port of Newcastle

Received at London Office SAT NOV 24 1906

No. in Survey held at Gateshead
Reg. Book.Date, first Survey July 18Last Survey Sep. 27 1906(Number of Visits 4)Gross 3808.58Tons Net 2485.04

30 supp on the

Master R. W. B. Blacklin Built at Hartlepool By whom built Furness Withy & Co. S/S 297 When built 1906Engines made at Hartlepool By whom made Richardsons Westgarth & Co. Ltd. when made 1906Boilers made at Gateshead By whom made Clarke Chapman & Co. No. 2614d when made 1906

Registered Horse Power

Owners Bennetts & Co.Port belonging to Grimsby

MULTITUBULAR BOILERS—MAIN, AUXILIARY OR DONKEY.—Manufacturers of Steel

(Letter for record S) Total Heating Surface of Boilers 565 sq. ft. Is forced draft fitted no No. and Description ofBoilers one, single-ended Working Pressure 100 lbs Tested by hydraulic pressure to 200 lbs Date of test 27/9/06No. of Certificate 7325 Can each boiler be worked separately ✓ Area of fire grate in each boiler 22 sq. ft. No. and Description ofsafety valves to each boiler 2 Spring Area of each valve 6.72 sq. in. Pressure to which they are adjusted 100 lbsAre they fitted with easing gear yes In case of donkey boilers, state whether steam from main boilers can enter the donkey boiler noSmallest distance between boilers or uptakes and bunkers or woodwork 18" Mean dia. of boilers 9'-0" Length 9'-0"Material of shell plates steel Thickness 9/16" Range of tensile strength 27-32 Are the shell plates welded or flanged noDescrip. of riveting: cir. seams S. Lap long. seams S. Lap Diameter of rivet holes in long. seams 7/8" Pitch of rivets 4 1/2"Lap of plates or width of butt straps 6 1/2" Per centages of strength of longitudinal joint rivets 80.5 Working pressure of shell byrules 102 lbs Size of manhole in shell 15" x 12" Size of compensating ring 6" x 9/16" plate 80.5 No. and Description of Furnaces in eachboiler 2-plain Material steel Outside diameter 2' 7 7/8" Length of plain part top 67" Thickness of plates crown 1/2" bottom 3/4"Description of longitudinal joint S. Lap No. of strengthening rings ✓ Working pressure of furnace by the rules 125 lbs Combustion chamberplates: Material steel Thickness: Sides 9/16" Back 9/16" Top 9/16" Bottom 9/16" Pitch of stays to ditto: Sides 10 1/2" x 9 1/4" Back 10 1/4" x 9 1/2"Top curved If stays are fitted with nuts or riveted heads nuts Working pressure by rules 111 lbs Material of stays steel Diameter atsmallest part 1 1/4" Area supported by each stay 97 sq. in. Working pressure by rules 100 lbs End plates in steam space: Material steel Thickness 3/4"Pitch of stays 17" x 12" How are stays secured S. H. W. Working pressure by rules 122 lbs Material of stays steel Diameter at smallest part 2"Area supported by each stay 204 sq. in. Working pressure by rules 54 lbs Material of Front plates at bottom steel Thickness 3/4" Material ofLower back plate steel Thickness 3/4" Greatest pitch of stays 10 1/4" Working pressure of plate by rules 98 lbs Diameter of tubes 3"Pitch of tubes 4 1/2" x 4" Material of tube plates steel Thickness: Front 3/4" Back 1 1/16" Mean pitch of stays 10 3/4" Pitch across widewater spaces 13" Working pressures by rules 100 lbs Girders to Chamber tops: Material none Depth and thickness ofgirder at centre ✓ Length as per rule ✓ Distance apart ✓ Number and pitch of Stays in each ✓Working pressure by rules ✓ Superheater or Steam chest; how connected to boiler none Can the superheater be shut off and the boiler workedseparately ✓ Diameter ✓ Length ✓ Thickness of shell plates ✓ Material ✓ Description of longitudinal joint ✓ Diam. of rivetholes ✓ Pitch of rivets ✓ Working pressure of shell by rules ✓ Diameter of flue ✓ Material of flue plates ✓ Thickness ✓If stiffened with rings ✓ Distance between rings ✓ Working pressure by rules ✓ End plates: Thickness ✓ How stayed ✓Working pressure of end plates ✓ 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 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 Stayed by Diameter of uptake Thickness of uptake plates Thickness of water tubes

FOR CLARKE, CHAPMAN & Co. LTD.

The foregoing is a correct description,

Manufacturer.

R. W. B. Blacklin 1906. July 18. Aug. 8. 31. Sep. 27

CHAIRMAN.

Dates of Survey while building
During progress of work in shops ---
During erection on board vessel ---
Total No. of visits 4Is the approved plan of main boiler forwarded herewith ✓" " " donkey " " ✓

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

This donkey boiler has been constructed under special survey & the materials & workmanship are found to be good.

This boiler has now been securely fitted on board & the safety valves have been adjusted under steam to the working pressure.

Thos. L. Thornton.

Certificate (if required) to be sent to

The amount of Entry Fee...	£	:	:	When applied for.
Special ...	£	:	:	When received.
Donkey Boiler Fee ...	£	0	0	
Travelling Expenses (if any) £	:	:	:	

Committee's Minute

Assigned

TUES. NOV 27 1906

Thomas Field
Engineer Surveyor to Lloyd's Register of British and Foreign Shipping.

Official Number	
1235	
No., Date, and Port	
Whether British or Foreign Built.	
British	
Number of Decks	
Number of Masts	
Rigged	
Stern	
Build	
Galleries	
Head	
Framework and vessel	
Number of Bulkheads	
Number of water tanks and their capacity	
Total to quarter at side amidships	
No. of Engines	Desc.
Three	Invested acting three expansion
Number	Iron or Steel
Pressure	
Under Tonnage D	
Closed-in spaces	
Space or spaces	
Poop	
Forecastle	
Round House	
Other closed-in	
Side House	
Excess Haul	
Spaces for machinery	
Section 78 (2) of 1894, if required	
Gross Tonnage	
Deductions, as per Register	
Name of	
No. of Owners	
Name, Residence, &c.	
The only Joseph Bridge	
Dated 19th	



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