

REPORT ON BOILERS.

No. 6283

Port of *Belfast* Received at London Office **SAT. 6 APL 1907**
 No. in Survey held at *Belfast* Date, first Survey *20 May 1906* Last Survey *March 27 1907*
 Reg. Book. *S.S. Chyebassa* (Number of Visits *49*) Tons { Gross *6249*
 on the *Belfast* Net *3991*
 Master Built at *Belfast* By whom built *Workman Clark & Co. Ltd.* When built *1907*
 Engines made at *Belfast* By whom made *-* when made *-*
 Boilers made at *Belfast* By whom made *-* when made *-*
 Registered Horse Power *✓* Owner *Butch India S. N. Co. Ltd.* Port belonging to *Glasgow*

MULTITUBULAR BOILERS — ~~MAIN, AUXILIARY OR DONKEY~~ — Manufacturers of Steel *Glasgow S. N. Co. Ltd.*(Letter for record *S*) Total Heating Surface of Boilers *1250 sq. ft.* Is forced draft fitted *No* No. and Description ofBoilers *one - Cylindrical - Single End* Working Pressure *180 lbs.* Tested by hydraulic pressure to *360* Date of test *29-1-07*No. of Certificate *390* Can each boiler be worked separately *✓* Area of fire grate in each boiler *36 sq. ft.* No. and Description ofsafety valves to each boiler *Two Ratchet Spring* Area of each valve *5.94 sq. in.* Pressure to which they are adjusted *180 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 *13"* Mean dia. of boilers *2'-0"* Length *10'-0"*Material of shell plates *Steel* Thickness *1 3/8"* Range of tensile strength *28-32* Are the shell plates welded or flanged *No*Descrip. of riveting: cir. seams *Lap & R. J. long. seams* Butt *Seam* Diameter of rivet holes in long. seams *1 3/8"* Pitch of rivets *8 1/2"*Lap of plates or width of butt straps *1 7/8"* Per centages of strength of longitudinal joint *88.6* Working pressure of shell byrules *197 lbs.* Size of manhole in shell *17 x 13"* Size of compensating ring *McNeil* No. and Description of Furnaces in eachboiler *2 - Marston's* Material *Steel* Outside diameter *46 1/4"* Length of plain part *top 4"* Thickness of plates *crown 3 1/2"*
bottom 10" *bottom 3 3/2"*Description of longitudinal joint *Well* No. of strengthening rings *✓* Working pressure of furnace by the rules *204 lbs.* Combustion chamberplates: Material *Steel* Thickness: Sides *4 1/2"* Back *2 1/2"* Top *4 3/4"* Bottom *8"* Pitch of stays to ditto: Sides *9 1/2 x 8 1/2"* Back *9 1/2 x 8 1/2"*Top *9 1/2 x 9"* If stays are fitted with nuts or riveted heads *Nuts inside* Working pressure by rules *192 lbs.* Material of stay *Steel* Diameter atsmallest part *1 1/2"* Area supported by *each stay* *80 1/2 sq. in.* Working pressure by rule *229 lbs.* plates in steam space: Material *Steel* Thickness *1 1/2"*Pitch of stays *18 x 16"* How are stays secured *Nuts inside* Working pressure by rules *186 lbs.* Material of stays *Steel* Diameter at smallest part *2 1/2"*Area supported by *each stay* *288 sq. in.* Working pressure by rules *193 lbs.* Material of Front plates at bottom *Steel* Thickness *1"* Material ofLower back plate *Steel* Thickness *7/8"* Greatest pitch of stays *14"* Working pressure of plate by rules *189 lbs.* Diameter of tubes *8"*Pitch of tubes *4 1/2 x 4 1/2"* Material of tube plate *Steel* Thickness: Front *1"* Back *1 1/2"* Mean pitch of stays *8 1/2 x 8 1/2"* Pitch across widewater spaces *14"* Working pressures by rules *183 lbs.* Girders to Chamber tops: Material *Steel* Depth and thickness ofgirder at centre *8 1/2 (1/2 x 2)* Length as per rule *29 1/2"* Distance apart *9 1/2"* Number and pitch of Stays in each *2-9"*Working pressure by rules *187 lbs.* Superheater or Steam chest: how connected to boiler *✓* 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 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,
FOR WORKMAN, CLARK & CO., LIMITED.
M. H. Bell Manufacturer.

Dates of Survey while building
 During progress of work in shops --
 During erection on board vessel --
 Total No. of visits

See other sheet

Is the approved plan of main boiler forwarded herewith

" " " donkey " "

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WS 35 Foundation

If not, state whether, and when, one will be sent

Is a Report also sent on the Hull of the Ship?

[Im. 86 Copyable Ink.]

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

Certificate (if required) to be sent to

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

The amount of Entry Fee...	£	See & there has	When applied for,
Special ...	£	:	19
Donkey Boiler Fee ...	£	:	When received,
Travelling Expenses (if any) £	:	:	19

R. J. Beuchamp
Engineer Surveyor to Lloyd's Register of British and Foreign Shipping.

Committee's Minute

TUES. 9 APR 1907

Assigned

See Minute on attached report



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