

REPORT ON BOILERS.

No. 6833

Received of London Office

1910. 30 AUG 1910

Date of writing Report *Aug. 27th 1910* When handed in at Local Office *Aug. 29th 1910* Port of *Belfast*
 No. in Survey held at *Belfast* Date, First Survey *9th Sep. 1909* Last Survey *20th Aug 1910*
 Reg. Book. *SS. V. Akelha* (Number of Visits *68*) Gross *7911* Net *5042*
 Master *Belfast* Built at *Belfast* By whom built *Harland & Wolff* When built *1910*
 Engines made at *Belfast* By whom made *Harland & Wolff* when made *-*
 Boilers made at *-* By whom made *-* when made *-*
 Registered Horse Power *-* Owners *Belfast Harbour & Dock Co. Ltd.* Port Belonging to *Southampton*

MULTITUBULAR BOILERS - MAIN, AUXILIARY OR DONKEY - Manufacturers of Steel

(Letter for record *5*) Total Heating Surface of Boilers *Single End 114 sq ft* Is forced draft fitted *No* No. and Description of Boilers *2 Single End bylin* Working Pressure *2 1/2 lbs* Date of test *6/5/10*
 No. of Certificate *433* Can each boiler be worked separately *Yes* Area of fire grate in each boiler *71 1/2 sq ft* No. and Description of safety valves to each boiler *2 Direct Spring* Area of each valve *8.29 sq* Pressure to which they are adjusted *2 1/5 lbs*
 Are they fitted with easing gear *Yes* In case of donkey boilers, state whether steam from main boilers can enter the donkey boiler *Yes*
 Smallest distance between boilers or uptakes and bunkers or woodwork *about 6 ft* Mean dia. of boilers *15'-8"* Length *11'-0"*
 Material of shell plates *Steel* Thickness *1 1/16* Range of tensile strength *29-33 tons* Are the shell plates welded or flanged *No*
 Descrip. of riveting: cir. seams *Lap W. P. long. seams* Diameter of rivet holes in long. seams *1 1/16* Pitch of rivets *10"*
 Top of plates on width of butt straps *23 1/2"* Per centages of strength of longitudinal joint *99.1* Working pressure of shell by rules *252 lbs* Size of manhole in shell *16x12* Size of compensating ring *1 1/2* No. and Description of Furnaces in each boiler *4 - Morrison* Material *Steel* Outside diameter *48 1/2* Length of plain part *2'* Thickness of plates *3 5/8* crown *3 5/8* bottom *3 5/8*
 Description of longitudinal joint *Weld* No. of strengthening rings *0* Working pressure of furnace by the rules *231 lbs* Combustion chamber plates: Material *Steel* Thickness: Sides *2 1/2* Back *5* Top *2 1/2* Bottom *5* Pitch of stays to ditto: Sides *7 1/2 x 1/2* Back *8 x 1/2*
 Top *9 x 1/2* If stays are fitted with nuts or riveted heads *Nuts inside* Working pressure by rules *214 lbs* Material of stays *Steel* Diameter at smallest part *1 1/2 to 1 3/4* Area supported by each stay *62 sq* Working pressure by rules *300 lbs* End plates in steam space: Material *Steel* Thickness *1 1/2*
 Pitch of stays *4 1/4 x 1 1/2* How are stays secured *Nuts & Washers* Working pressure by rules *215 lbs* Material of stays *Steel* Diameter at smallest part *2 1/8 to 3*
 Area supported by each stay *285 sq* Working pressure by rules *254 lbs* Material of Front plates at bottom *Steel* Thickness *5* Material of Lower back plate *Steel* Thickness *5* Greatest pitch of stays *12 1/2* Working pressure of plate by rule *239 lbs* Diameter of tubes *2 1/4*
 Pitch of tubes *4 x 4* Material of tube plates *Steel* Thickness: Front *7* Back *13* Mean pitch of stays *8 x 8* Pitch across wide water spaces *14* Working pressures by rules *338 lbs with 5/8" Girders to Chamber tops* Material *Iron* Depth and thickness of girder at centre *9 1/2 x (8 x 2)* Length as per rule *30 1/2* Distance apart *9 x 7* Number and pitch of Stays in each *3 - 7 1/2*
 Working pressure by rules *232 lbs* Superheater or Steam chest; how connected to boiler *-* Can the superheater be shut off and the boiler worked separately *-*
 Diameter Length Thickness of shell plates Material Description of longitudinal joint Diam. of rivet holes 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 *Yes*

The foregoing is a correct description,
Harland & Wolff Ltd Manufacturer.

Is the approved plan of boiler forwarded herewith *Yes*
 Total No. of visits *68*

Dates of Survey } During progress of work in shops - - }
 while building } During erection on board vessel - - }

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

See other sheet

Survey Fee ... £ : : } When applied for, *19*
 Travelling Expenses (if any) £ : : } When received, *19*

Committee's Minute *See minute on attached Rpt Bel 6833*
 Assigned *See minute on attached Rpt Bel 6833*

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



List of Tanky Ramps

2	Main Feed	13 1/2	x	10	x	24
2	General	9 1/2	x	4	x	21
1	Ballast	10	x	12	x	12
1	F Water	4	x	4	x	5

Write "A" on the "Shelter Deck" "Sheer Strake" opposite the corresponding letter.
 State thickness way of Bo
 DOUBLE
 POOP
 SHORT
 FOREC
 M
 manufa
 Plates,
 Has the
 FRAME
 REVERS
 DECK
 LOWER M
 Bowsprit
 Topmaste
 Rigging
 Sails.
 EQUIP
 Number of
 Certificate
 6389
 6389
 6390
 6382
 6396
 Number
 Certific
 460
 460
 Boats
 Pump
 Windl
 Engin
 What
 Coal
 Numb
 Ceilin
 Cargo
 State
 Numb
 Bulw
 The a
 Build