

REPORT ON BOILERS.

No. 6833

Received at London Office

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 May 1910*
Reg. Book. *SS. Oakeha* (Number of Visits *68*) Gross *7911*
on the *Belfast* Tons 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 *Belfast*
Boilers made at *Belfast* By whom made *Harland & Wolff* when made *Belfast*
Registered Horse Power *~* Owners *Belfast Harbour & Dock Co. Ltd.* Port belonging to *Southampton*

MULTITUBULAR BOILERS - MAIN, AUXILIARY OR DONKEY - Manufacturers of Steel *Harland & Wolff*
(Letter for record *5*) Total Heating Surface of Boilers *5114 sq ft* Is forced draft fitted *No* No. and Description of Boilers *2 Single End Cylindrical* Working Pressure *200 lbs* Tested by hydraulic pressure to *430 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 *71.5 sq ft* No. and Description of safety valves to each boiler *2 Direct Spring* Area of each valve *8.29 sq in* Pressure to which they are adjusted *215 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 1/2"* Range of tensile strength *29-33 tons* Are the shell plates welded or flanged *No*
Descrip. of riveting: cir. seams *Lap Weld* long. seams *Butt Lap* Diameter of rivet holes in long. seams *1 1/2"* Pitch of rivets *10"*
Top of plates on width of butt straps *23 1/2"* Per centages of strength of longitudinal joint rivets *99.1* Working pressure of shell by rules *252 lbs* Size of manhole in shell *16 x 12"* Size of compensating ring *11 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 1/2"*
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 *3 1/2"* Back *5"* Top *3 1/2"* Bottom *3"* Pitch of stays to ditto: Sides *7 1/2 x 4 1/2"* Back *8 x 4 1/2"*
Top *7 1/2 x 4 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"* Area supported by each stay *62 sq in* Working pressure by rules *300 lbs* End plates in steam space: Material *Steel* Thickness *1 1/2"*
Pitch of stays *4 1/2 x 15"* How are stays secured *Nuts & Washers* Working pressure by rules *215 lbs* Material of stays *Steel* Diameter at smallest part *2 1/2"*
Area supported by each stay *285 sq in* Working pressure by rules *254 lbs* Material of Front plates at bottom *Steel* Thickness *3"* Material of Lower back plate *Steel* Thickness *3"* 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 *3"* Back *1 3/4"* Mean pitch of stays *8 x 8"* Pitch across wide water spaces *14"* Working pressures by rules *338 lbs with 3/8" flange* 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

The foregoing is a correct description,
Harland & Wolff Ltd Manufacturer.
Is the approved plan of boiler forwarded herewith *Yes*
Total No. of visits *68*

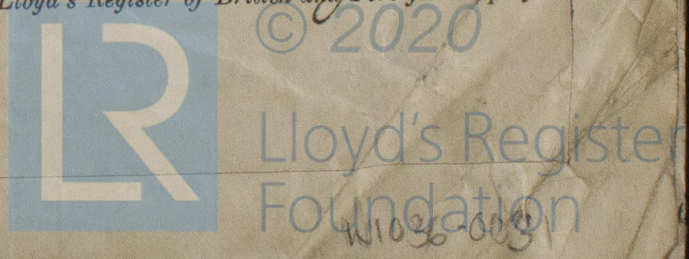
Dates of Survey } During progress of work in shops - - }
while building } During erection on board vessel - - }

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

Survey Fee ... £ *5* : : When applied for, *19*
Travelling Expenses (if any) £ *5* : : When received, *19*

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

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



List of Tanky Ramps

2	Wine 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

FLAT
OF B
GARE
State
thick
way of
Bo

Ch
Can
Lid

DOUB

POOP
SHORT
FOREC

M

manufa

Plates,

She

9

Has the

FRAME

REVERS

Deck

LOWER M

Bowsprit

Topmaste

Rigging

Sails.

EQUIP

Number of

Certificate

6389

6389

6390

6382

6396

Number

Certific

460

460

Steel V

Boats

Pump

Windl

Engin

What

Coal

Numb

Ceilin

Cargo

State

Numb

2

Bulw

The a

Build



© 2020

Lloyd's Register
Foundation