

REPORT ON BOILERS.

No. 7093.

TUE. JUN. 11. 1912

Date of writing Report *4th June 1912* When handed in at Local Office *Belfast*
No. in Survey held at *Belfast* Date, First Survey *May. 3.* Last Survey *June 6th 1912*
Reg. Book. *706* on the *S.S.S. Graphic* (Number of Visits *14.*) Gross *2022*
Master *T. Masill* Built at *Belfast* By whom built *Harland & Wolff L^d* Tons { Net *444*
Engines made at *Belfast* By whom made *Belfast S.S. Coy L^d* When built *1906*
Boilers made at *Belfast* By whom made *Belfast S.S. Coy L^d* when made
Registered Horse Power *1* Owners *Belfast S.S. Coy L^d* Port belonging to *Belfast*

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

Letter for record *S* Total Heating Surface of Boilers *2124 sq ft* Is forced draft fitted *No* No. and Description of
Boilers *1 Single End. by line* Working Pressure *215 lbs* Tested by hydraulic pressure to *250* Date of test *✓*
No. of Certificate *✓* Can each boiler be worked separately *Yes* Area of fire grate in each boiler *572 sq ft* No. and Description of
Safety valves to each boiler *Two - Direct Spring* Area of each valve *7.04 sq in* Pressure to which they are adjusted *200 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 *14"* Mean dia. of boilers *14'-0"* Length *10'-6"*
Material of shell plates *Steel* Thickness *1 1/2"* Range of tensile strength *29-32 tons* Are the shell plates welded or flanged *No*
Descrip. of riveting: cir. seams *Lap Weld* long. *Butt. Saddle* Diameter of rivet holes in long. seams *1 1/32"* Pitch of rivets *70"*
Pitch of plates or width of butt straps *22 1/2"* Per centages of strength of longitudinal joint *89.4* Working pressure of shell by
rules *252 lbs* Size of manhole in shell *16" x 12"* Size of compensating ring *16"* No. and Description of Furnaces in each
Boiler *3 - Morrison's* Material *Steel* Outside diameter *45"* Length of plain part *10"* Thickness of plates *2 1/2"*
Description of longitudinal joint *Weld* No. of strengthening rings *✓* Working pressure of furnace by the rules *237 lbs*
Material *Steel* Thickness: Side *5/8 + 19/32"* Back *19/32"* Top *5/8 + 19/32"* Bottom *7/8"* Pitch of stays to ditto: Sides *7 3/4" x 7"* Back *7 3/8" x 7 3/8"*
Top *6" x 7"* If stays are fitted with nuts or riveted heads *Nuts visible* Working pressure by rules *219 lbs* Material of stays *Steel* Diameter at
smallest part *1 3/8" to 1 1/2"* Area supported by *✓* Working pressure by rules *218 lbs* Material of plates in steam space: Material *Steel* Thickness *1 1/2"*
Pitch of stays *7 3/4" x 14 3/4"* How are stays secured *9 Nuts - 10 Washers* Working pressure by rules *278 lbs* Material of stay *Steel* Diameter at smallest part *2 5/16" x 2 7/8"*
Area supported by *✓* stay *262 sq ft* Working pressure by rules *248 lbs* Material of Front plates at bottom *Steel* Thickness *1 5/16"* Material of
Lower back plate *Steel* Thickness *1 3/16"* Greatest pitch of stays *13"* Working pressure of plate by rules *576 lbs with 15" diameter tubes*
Pitch of tubes *4" x 4"* Material of tube plate *Steel* Thickness: Front *1 5/16"* Back *1 3/16"* Mean pitch of stays *8" x 8"* Pitch across wide
water spaces *14"* Working pressures by rules *328 lbs with 8" diameter* Girders to Chamber tops: Material *Iron* Depth and thickness of
Girders at centre *8" x 8" x 2"* Length as per rule *27"* Distance apart *8 1/4" x 8"* Number and pitch of Stays in each *3 - 7"*
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,
Manufacturer.

Dates of Survey { During progress of work in shops - - }
while building { During erection on board vessel - - }
Is the approved plan of boiler forwarded herewith
Total No. of visits

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

✓

Survey Fee ... £ : : When applied for, 19...
Travelling Expenses (if any) £ : : When received, 19...
R. F. Brennan
Engineer Surveyor to Lloyd's Register of British and Foreign Shipping.

Committee's Minute
Assigned

FRI. JUN. 14. 1912

Donkey Pumps

2 Weirs Feed
General
Ballast
Sanitary
& Water
Main Centrif

14" x 10 1/2" x 26"

6" x 4 1/2" x 9"

4 1/2" x 4 1/2" x 6"

6" x 4 1/2" x 6"

4" x 4" x 5"

12" pipe

pt. 4.

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Foundation