

REPORT ON BOILERS.

No. 7082

TUE. MAY. 14. 1912

Date of writing Report *15 May 12* When handed in at Local Office *Belfast* 19 *Port of Belfast*
No. in Survey held at *Belfast* Date, First Survey *Apr. 4th* Last Survey *May 1st 1912*
Reg. Book. *J.S.S. Heroic* (Number of Visits *12*) Gross *675*
on the *J.S.S. Heroic* Tons Net *444*
Master *A. Porter* Built at *Belfast* By whom built *Harland & Wolff L^{td}* When built *1906*
Engines made at *Belfast* By whom made *-* when made *-*
Boilers made at *-* By whom made *-* when made *-*
Registered Horse Power *✓* Owners *Belfast S.S. Co L^{td}* Port belonging to *Belfast*

MULTITUBULAR BOILERS ~~MAIN, AUXILIARY OR DONKEY~~ Manufacturers of Steel *G. Colville & Sons L^{td}*
(Letter for record *S*) Total Heating Surface of Boilers *2129 sq ft* Is forced draft fitted *No* No. and Description of
Boilers *one - Single End, Cyl.* Working Pressure *215 lbs* Tested by hydraulic pressure to *-* Date of test *✓*
No. of Certificate *✓* Can each boiler be worked separately *Yes* Area of fire grate in each boiler *57 1/2 sq ft* No. and Description of
safety valves to each boiler *two - West Spring* Area of each valve *7.07 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 *✓*
Smallest distance between boilers or uptakes and bunkers or woodwork *about 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 & But* long. seams *Butt & Lap* Diameter of rivet holes in long. seams *1 1/2"* Pitch of rivets *10"*
Lap of plates or width of butt straps *22 1/2"* Per centages of strength of longitudinal joint rivets *89.4* Working pressure of shell by
rules *252 lbs* Size of manhole in shell *16" x 12"* Size of compensating ring *M^{rs} Heils* No. and Description of Furnaces in each
boiler *3 - Mains* Material *Steel* Outside diameter *45"* Length of plain part top *10"* Thickness of plates crown *2 1/2"* bottom *3 3/4"*
Description of longitudinal joint *Weld* No. of strengthening rings *✓* Working pressure of furnace by the rules *237 lbs* Combustion chamber
plates: Material *Steel* Thickness: Sides *5/8" x 19/32"* Back *19/32"* Top *5/8" x 19/32"* Bottom *5/8"* Pitch of stays to ditto: Sides *7 1/2" x 7"* Back *7 1/2" x 7 1/2"*
Top *8 3/4" x 7"* If stays are fitted with nuts or riveted heads *Nuts inside* Working pressure by rules *219 lbs* Material of stays *Steel* Diameter at
smallest part *1 3/8" x 1 1/8"* Area supported by each stay *Varies* Working pressure by rules *218 lbs* Head plates in steam space: Material *Steel* Thickness *1 1/4"*
Pitch of stays *4 1/2" x 1 1/4"* How are stays secured *Nuts & Washers* Working pressure by rule *218 lbs* Material of stay *Steel* Diameter at smallest part *2 1/2" x 2 1/2"*
Area supported by each stay *262 sq in* 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 1/8"* Greatest pitch of stays *1/3"* Working pressure of plate by rules *575 lbs* Diameter of tubes *2 1/4"*
Pitch of tubes *4" x 4"* Material of tube plates *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 *318 lbs with 2 inch tubes* Girders to Chamber tops: Material *Iron* Depth and thickness of
girder at centre *8" x (7 x 2)* Length as per rule *27"* Distance apart *8 3/4" x 8"* Number and pitch of Stays in each *3 - 7"*
Working pressure by rule *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.

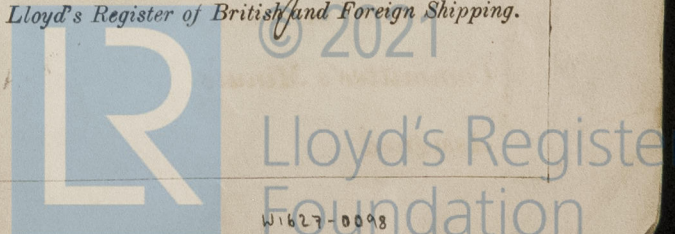
Dates of Survey { During progress of work in shops - - } Is the approved plan of boiler forwarded herewith
while building { During erection on board vessel - - } Total No. of visits *12*

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

Committee's Minute
Assigned
TUE. MAY. 21. 1912



List of Pumps

2 W. Feed

14' x 10 1/2' x 26"

General

6' x 4 1/4' x 9"

Ballast

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

Sanitary

6' x 4 1/4' x 6"

F. Water

4' x 4' x 5"

Main Centrif.

12" pipe

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



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