

# REPORT ON BOILERS.

No. 7082  
TUE. MAY. 14. 1912

Date of writing Report 14<sup>th</sup> May 12 When handed in at Local Office Belfast 19 Port of Belfast  
 No. in Survey held at Belfast Date, First Survey Apr. 4<sup>th</sup> Last Survey May 1<sup>st</sup> 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 Hawland & Wolff L<sup>o</sup> 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. Coy L<sup>o</sup> Port belonging to Belfast

MULTITUBULAR BOILERS ~~MAIN, AUXILIARY OR DONKEY~~ —Manufacturers of Steel G. Colville & Sons L<sup>o</sup>

(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 - Woot 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"

Gap of plates or width of butt straps 22 1/4" 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. Heils No. and Description of Furnaces in each boiler 3 - Mansions

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 + 19/32 Back 19/32 Top 5/8 + 19/32 Bottom 7/8 Pitch of stays to ditto: Sides 7 1/2 x 7 Back 7 1/2 x 7 1/2

Top 8 1/2 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 1/2" Area supported by each stay Varies Working pressure by rules 218 lbs plates in steam space: Material Steel Thickness 1/4"

Pitch of stays 14 1/2 x 14 1/2 How are stays secured Nuts & Washers Working pressure by rule 218 lbs Material of stay Steel Diameter at smallest part 2 1/2 + 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 15/16 Material of Lower back plate Steel Thickness 13/16 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 plate Steel Thickness: Front 15/16 Back 13/16 Mean pitch of stays 8" x 8" Pitch across wide water spaces 14" Working pressures by rules 328 lbs with 7/8" washers Chamber tops: Material Iron Depth and thickness of girder at centre 8" x (7/8 x 2) Length as per rule 27" Distance apart 8 1/2 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 -

holes	Diameter	Length	Thickness of shell plates	Material	Description of longitudinal joint	Diam. of rivet

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.

Is the approved plan of boiler forwarded herewith

Total No. of visits

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

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

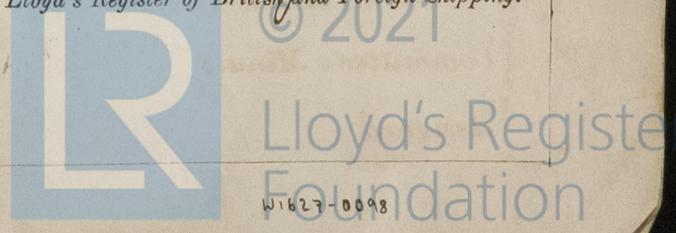
Survey Fee ... .. £ : : } When applied for, ..... 19.....  
 Travelling Expenses (if any) £ : : } When received, ..... 19.....

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

Committee's Minute

TUE. MAY. 21. 1912

Assigned



# 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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