

# REPORT ON BOILERS

 No. 9015  
 MUN. D.F.C. 10 1923

Received at London Office

Date of writing Report 191 When handed in at Local Office 191 Port of *Belfast*  
 No. in Survey held at *Belfast* Date, First Survey Last Survey 191  
 Reg. Book. *2/124 on the Trin S/S "GRAPHIC"* (Number of Visits) Tons } Gross  
 Master *✓* Built at *Belfast* By whom built *Harland & Wolff* When built *1906*  
 Engines made at *Belfast* By whom made *Harland & Wolff* When made *1906*  
 Boilers made at *"* By whom made *"* When made *1923*  
 Registered Horse Power *552* Owners *Belfast S.S. Co. Ltd.* Port belonging to *Belfast*

## MULTITUBULAR BOILERS—MAIN, AUXILIARY OR DONKEY.—Manufacturers of Steel *J. Colville & Son*

(Letter for record *5*) Total Heating Surface of Boilers *5086* sq. ft. forced draft fitted *yes* No. and Description of  
 Boilers *2-Single ended Multitubular Working Pressure 215* Tested by hydraulic pressure to *373* Date of test *19/23*  
 No. of Certificate *✓* Can each boiler be worked separately *yes* Area of fire grate in each boiler *oil fuel* No. and Description of  
 safety valves to each boiler *2-direct spring* Area of each valve *7-074"* Pressure to which they are adjusted *220 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 *4'-9"* Mean dia. of boilers *15'-9 1/2"* Length *11'-9 7/8"*  
 Material of shell plates *Steel* Thickness *1 1/2"* Range of tensile strength *30/34* Are the shell plates welded or flanged *No*  
 Descrip. of riveting: cir. seams *Lap double long. seams ~~the same~~* Diameter of rivet holes in long. seams *1 5/8"* Pitch of rivets *10 1/4"*  
 Lap of plates or width of butt straps *1-11 3/4"* Per centages of strength of longitudinal joint rivets *97* Working pressure of shell by  
 rules *224.5* Size of manhole in shell *16" x 12"* Size of compensating ring *36" x 32"* No. and Description of Furnaces in each  
 boiler *3-corrugated* Material *Steel* Outside diameter *4'-2 3/4"* Length of plain part top *8"* Thickness of plates crown *2 1/2"* bottom *3 1/2"*  
 Description of longitudinal joint *✓* No. of strengthening rings *✓* Working pressure of furnace by the rules *220.2* Combustion chamber  
 plates: Material *Steel* Thickness: Sides *3/32"* Back *3/32"* Top *3/32"* Bottom *3/32"* Pitch of stays to ditto: Sides *7'-8 1/2"* Back *8'-18"*  
 Top *8' x 8"* If stays are fitted with nuts or riveted heads *Nuts* Working pressure by rules *234* Material of stays *Steel* Diameter at  
 smallest part *1-76"* Area supported by each stay *64* Working pressure by rules *237* End plates in steam space: Material *Steel* Thickness *1 1/8"*  
 Pitch of stays *6 1/4" x 6 1/4"* How are stays secured *with nuts & washers outside* Working pressure by rules *250* Material of stays *Steel* Diameter at smallest part *7078*  
 Area supported by each stay *2720* Working pressure by rules *289* Material of Front plates at bottom *Steel* Thickness *7/8"* Material of  
 Lower back plate *Steel* Thickness *7/8"* Greatest pitch of stays *8' x 8"* Working pressure of plate by rules *489* Diameter of tubes *2 3/4"*  
 Pitch of tubes *4" x 4"* Material of tube plates *Steel* Thickness: Front *7/8"* Back *1 3/16"* Mean pitch of stays *8' x 8"* Pitch across wide  
 water spaces *14" x 4"* Working pressures by rules *266.7* Girders to Chamber tops: Material *Steel* Depth and thickness of  
 girder at centre *11" x 7 1/8" x 3'* Length as per rule *342"* Distance apart *8"* Number and pitch of Stays in each *4'-8"*  
 Working pressure by rules *328* 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

For HARLAND &amp; WOLFF Ltd. The foregoing is a correct description,

*H. E. Lebeck* Manufacturer.

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

 Is the approved plan of boiler forwarded herewith *yes* *✓*

Total No. of visits

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

*The material & workmanship of these boilers, so far as could be seen, is good.*

Survey Fee ... £ : } When applied for, 191  
 Travelling Expenses (if any) £ : } When received, 191

*H. B. Southwell*  
 Engineer Surveyor to Lloyd's Register of British and Foreign Shipping.

Committee's Minute

Assigned

FRI JAN. 4 1924


 Lloyd's Register  
 Foundation

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