

REPORT ON BOILERS.

No. 9158

Received at London Office FRI. JUL 25 1924

-1 OCT 1925

Date of writing Report 1924 When handed in at Local Office 24th July 1924 Port of Belfast
 No. in Survey held at Belfast Date, First Survey May 29th, 1924 Last Survey July 23rd 1924
 Reg. Book. 308 "LLANDOVERY CASTLE" (Number of Visits 3) Gross Tons 606 Net Tons 509 A
 Master Glasgow Built at Glasgow By whom built Barclay Curle & Co Ltd When built 1924
 Engines made at Glasgow By whom made Barclay Curle & Co Ltd When made 1924
 Boilers made at Belfast By whom made Harland & Wolff Ltd When made 1924
 Registered Horse Power Union Castle Steamship Co Ltd Port belonging to London

MULTITUBULAR BOILERS—MAIN, AUXILIARY OR DONKEY.—Manufacturers of Steel D. B. Shille & Sons Ltd
 (Letter for record 5) Total Heating Surface of Boilers 14508 sq ft Is forced draft fitted no No. and Description of Boilers Three double ended 3DB Working Pressure 220 lbs Tested by hydraulic pressure to 385 lbs Date of test 29-5-24
 No. of Certificate 839 Can each boiler be worked separately yes Area of fire grate in each boiler 129.2 sq ft No. and Description of safety valves to each boiler 3. backhuns "High Lift" Area of each valve 9.620 sq in Pressure to which they are adjusted 225
 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 2'-3" Mean dia. of boilers 15'-8" Length 19'-10 3/4"
 Material of shell plates Steel Thickness 1/2" Range of tensile strength 30 & 34 Hk Are the shell plates welded or flanged no
 Descrip. of riveting: cir. seams T.R.+D.R. long. seams T.R.D.B.S. Diameter of rivet holes in long. seams 1 5/8" Pitch of rivets 10 1/2"
 Lap of plates width of butt straps 1'-11 3/4" Per centages of strength of longitudinal joint rivets 94.5 Working pressure of shell by rules 225 lbs Size of manhole in shell 16" x 12" Size of compensating rings 2 off 3'-0" x 2'-8" x 1 1/2" Hk No. and Description of Furnaces in each boiler 6 Corrugated Material Steel Outside diameter 11'-2 1/16" Length of plain part top 21' bottom 32' Thickness of plates 21' 1/2" bottom 32'
 Description of longitudinal joint weld. No. of strengthening rings 1 Working pressure of furnace by the rules 220 lbs Combustion chamber plates: Material Steel Thickness: Sides 2 1/2" Back 2 1/2" Top 2 1/2" Bottom 1 3/2" + 3/4" Pitch of stays to ditto: Sides 4 1/2" x 6 1/2" Back 4 1/2" x 6 1/2"
 Top 8 x 4 If stays are fitted with nuts or riveted heads nuts Working pressure by rules 234 lbs Material of stays Steel Diameter at smallest part 1.76" Area supported by each stay 64 sq in Working pressure by rules 238 lbs End plates in steam space: Material Steel Thickness 1 1/8"
 Pitch of stays 16 1/2" x 16 1/2" How are stays secured S.N. Wash. Working pressure by rules 242 lbs Material of stays Steel Diameter at smallest part 1.065" Area supported by each stay 27 sq in Working pressure by rules 286 lbs Material of Front plates at bottom Steel Thickness 1/8" Material of Lower back plate yes Thickness 1 1/4" Working pressure of plate by rules 263 lbs Diameter of tubes 2 3/4"
 Pitch of tubes 4" x 4" Material of tube plates Steel Thickness: Front 7/8" Back 13/16" Mean pitch of stays 8" Pitch across wide water spaces 14" Working pressures by rules 267 lbs Girders to Chamber tops: Material Steel Depth and thickness of girder at centre 2 @ 10" x 7 1/8" Length as per rule 4-7 3/8" Distance apart 8" Number and pitch of Stays in each 6 @ 8"
 Working pressure by rules 343 lbs Superheater or Steam chest: how connected to boiler how Can the superheater be shut off and the boiler worked separately yes
 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,
 FOR HARLAND & WOLFF LTD
W. K. Beck Manufacturer.

Dates of Survey 1924 During progress of work in shops May 29, June 25, July 23 = 3 Is the approved plan of boiler forwarded herewith yes
 while building During erection on board vessel - - - Total No. of visits

GENERAL REMARKS (State quality of workmanship, opinions as to class, &c.) These Boilers have not been built under Special Survey. Materials & workmanship so far as could be seen good. Boilers have been thoroughly examined & results found in accordance with approved plan. Hydraulic tests satisfactory. They are being shipped to Glasgow for installation in the vessel.

GLASGOW (1-9-25) These boilers have been satisfactorily fixed in the vessel and their safety valves adjusted.

Survey Fee £2 1/2 When applied for 191
 Travelling Expenses (if any) £1 When received 191
Charged at Glasgow & credited to Belfast.
William Bates, L. Davis
 Engineer Surveyor to Lloyd's Register of British and Foreign Shipping.

Committee's Minute GLASGOW 30 SEP 1925
 Assigned See Gls. Rpt. No. 45020
 Lloyd's Register Foundation
 W1091-0056