

# REPORT ON BOILERS.

No. 10050.

Received at London Office TUE. 12 MAR. 1918

When handed in at Local Office 11.3.18 Port of Middlesbrough  
 Survey held at Stockton-on-Tees Date, First Survey 14<sup>th</sup> Nov. 1917 Last Survey 28<sup>th</sup> Feb. 1918  
 on the Ferro-Concrete S/S "Armistice" (Number of Visits 14) Gross Tons      Net Tons       
 Built at Barrow-in-Furness By whom built Ferro-Concrete Ship Construction Co. Ltd. When built 1919  
 made at S. Shields By whom made G. T. Grey & Co. Lim. When made       
 made at Stockton By whom made Messrs Rileys Bros Ltd (No 5102) When made 1918  
 Owners The Ferro-Concrete Ship Construction Co. Ltd. (Leopold Walford (London) Ltd. Ingrs) Port belonging to London

**TUBULAR BOILERS—MAIN, AUXILIARY OR DONKEY.**—Manufacturers of Steel John Spencer & Sons  
David Colville & Sons

for record (S) Total Heating Surface of Boilers 743 sq ft Is forced draft fitted No No. and Description of       
One single ended Working Pressure 140 Tested by hydraulic pressure to 280 Date of test 28.2.18  
 Certificate 5871 Can each boiler be worked separately Yes Area of fire grate in each boiler 29 sq ft No. and Description of       
 valves to each boiler Two - Spring-loaded Area of each valve 3.98 sq in Pressure to which they are adjusted 143 lbs per sq in  
 fitted with easing gear Yes In case of donkey boilers, state whether steam from main boilers can enter the donkey boiler       
 distance between boilers or uptakes and bunkers or woodwork 4'-0" Inside Mean dia. of boilers 9'-6" Length 9'-0"  
 material of shell plates Steel Thickness 4 3/4" Range of tensile strength 28-32 Are the shell plates welded or flanged no  
 type of riveting: cir. seams 2 R. lap long. seams 2 B - 2 Riv Diameter of rivet holes in long. seams 15/16" Pitch of rivets 5 1/2"  
 plates or width of butt straps 9 x 4 1/2" Per centages of strength of longitudinal joint rivets 83.7 Working pressure of shell by       
140 Size of manhole in shell 19" x 15" Size of compensating ring 7 x 1 No. riv No. and Description of Furnaces in each       
2 plain Material steel Outside diameter 36" Length of plain part top 66 3/4" Thickness of plates crown 5/8" bottom 92" bottom 1/8" man  
 position of longitudinal joint Weld No. of strengthening rings none Working pressure of furnace by the rules 153 Combustion chamber       
 Material Steel Thickness: Sides 9/8" Back 9/8" Top 9/8" Bottom 3/4" Pitch of stays to ditto: Sides 9 x 8" Back 9 x 8 1/4"  
2 x 8" If stays are fitted with nuts or riveted heads nuts Working pressure by rules 140 Material of stays steel Area at       
 top part 1.45 Area supported by each stay 74.25 Working pressure by rules 156 End plates in steam space: Material steel Thickness 7/8"  
 of stays 14 How are stays secured nuts + 6 x 2 washers Working pressure by rules 140 Material of stays steel Area at smallest part 4.11  
 supported by each stay 278 Working pressure by rules 154 Material of Front plates at bottom steel Thickness 7/8" Material of       
 back plate steel Thickness 7/8" Greatest pitch of stays 13 1/4" x 8 1/4" Working pressure of plate by rules 216 Diameter of tubes 3 1/2"  
 of tubes 4 1/2" x 4 1/4" Material of tube plates steel Thickness: Front 7/8" Back 5/8" Mean pitch of stays 10" Pitch across wide       
 spaces 13 1/4" Working pressures by rules 140 Girders to Chamber tops: Material steel Depth and thickness of       
 at centre 7 x 1 1/4" Length as per rule 26" Distance apart 9 1/2" Number and pitch of Stays in each 2 @ 8"  
 working pressure by rules 144 Steam dome: description of joint to shell none % of strength of joint       
 Thickness of shell plates      Material      Description of longitudinal joint      Diam. of rivet holes       
 Working pressure of shell by rules      Crown plates      Thickness      How stayed     

**REHEATER.** Type none Date of Approval of Plan      Tested by Hydraulic Pressure to       
 Is a Safety Valve fitted to each Section of the Superheater which can be shut off from the Boiler       
 Pressure to which each is adjusted      Is Easing Gear fitted     

REVEY REQUEST      ATTACHED 1406  
 The foregoing is a correct description,      Manufacturer.       
 Is the approved plan of boiler forwarded herewith yes  
 During progress of work in shops: 1917. Nov 14, 19, 23, Dec 5, 16, 20, 1918. Jan 10  
 During erection on board vessel: 1919 Jan 9, 13, 18, 21, 24, 28, Feb 3, 5, 6, 7  
 Total No. of visits 14 Total 25

**GENERAL REMARKS** (State quality of workmanship, opinions as to class, &c.) This boiler has been built under  
special survey: is of good material and workmanship and on completion was tested by  
hydraulic pressure with satisfactory results. The boiler has been forwarded to Smith Shields  
this boiler has been efficiently fitted on board; its safety valves have been adjusted  
as steam as noted above, & it was found tight under a full head of steam  
 Survey Fee £ 2-10-0 When applied for Monthly ac John Houston  
 Travelling Expenses (if any)      When received,      191 15/2/19  
W. Morrison  
 Engineer Surveyor to Lloyd's Register of Shipping.

Committee's Minute      FRI. - 7 MAR. 1919  
 signed       
 Lloyd's Register of Shipping  
 W.F. Foundation