

## REPORT ON BOILERS.

No. 30,545

Received at London Office  
 Date of writing Report 31-5-18 191 When handed in at Local Office 1-6-18 191 Port of Hull  
 No. in Survey held at Hull Date, First Survey 10-1-18 Last Survey 31-5-18 191  
 Reg. Book. on the steel screw trawler "Robert Double" (Number of Visits 35)  
 Master Gork Built at Gork By whom built Gork & B. & P. 60 L When built 1912-5  
 Engines made at Glasgow By whom made W. Beardmore 160 L (No. 4) When made 1912-6  
 Boilers made at Hull By whom made Chas. D. Holmes 160 L (A 32) When made 1912-5  
 Registered Horse Power 87 Owners British Admiralty Port belonging to

MULTITUBULAR BOILERS—MAIN, AUXILIARY OR DONKEY.—Manufacturers of Steel J. Spence & Sons Ltd. Hull  
 (Letter for record S) Total Heating Surface of Boilers 1440 sq ft Is forced draft fitted no No. and Description of  
 boilers one single ended Working Pressure 200 Tested by hydraulic pressure to 400 Date of test 16-3-18  
 No. of Certificate 3280 Can each boiler be worked separately ✓ Area of fire grate in each boiler 48 sq ft No. and Description of  
 safety valves to each boiler two spring loaded Area of each valve 4.9 sq in Pressure to which they are adjusted 205  
 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 7" Bl. lagged dia. of boilers 165" Length 10'-8"  
 Material of shell plates steel Thickness 1 1/8" Range of tensile strength 28-32 tons Are the shell plates welded or flanged no  
 Descrip. of riveting: cir. seams double long. seams S.P.D.B. 1 Diameter of rivet holes in long. seams 1 1/4" Pitch of rivets 2 1/2"  
 Top of plates or width of butt straps 18" Per centages of strength of longitudinal joint 85.9 Working pressure of shell by  
 rules 202 Size of manhole in shell 16" x 12" Size of compensating ring 7" x 1 1/8" No. and Description of Furnaces in each  
 boiler three plain Material steel Outside diameter 40" Length of plain part 78 1/2" Thickness of plates 13 1/16"  
 Description of longitudinal joint welded No. of strengthening rings ✓ Working pressure of furnace by the rules 206 Combustion chamber  
 plates: Material steel Thickness: Sides 3/4" Back 2 3/32" Top 3/4" Bottom 3/4" Pitch of stays to ditto: Sides 10" x F Back 9 3/4" x F 3/4"  
 Top 11" x F If stays are fitted with nuts or riveted heads nuts Working pressure by rules 208 Material of stays steel Diameter at  
 smallest part 2.07 Area supported by each stay 88 sq in Working pressure by rules 211 End plates in steam space: Material steel Thickness 1 1/32"  
 Pitch of stays 19" x 7 5/8" How are stays secured by nuts Working pressure by rules 210 Material of stays steel Diameter at smallest part 7.5"  
 Area supported by each stay 335 sq in Working pressure by rules 233 Material of Front plates at bottom steel Thickness 1 5/16" Material of  
 lower back plate steel Thickness 1 5/16" Greatest pitch of stays 3 3/4" x 9 1/16" Working pressure of plate by rules 216 Diameter of tubes 3 1/2"  
 Pitch of tubes 4 7/8" Material of tube plates steel Thickness: Front 1 5/16" + 3/4" abt Back 1 1/8" Mean pitch of stays 10" Pitch across wide  
 water spaces 14" Working pressures by rules 275 Girders to Chamber tops: Material steel Depth and thickness of  
 girder at centre 11" x 1 3/4" Length as per rule 36.22 Distance apart 11" Number and pitch of Stays in each three 8"  
 Working pressure by rules 201 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 ✓  
 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 CHARLES D. HOLMES & CO. LTD.

Manufacturer.

Dates During progress of 1915: Jan 10, 16, 21, 25, 30, Feb 4, 12, 18, 20, 22, 27 Is the approved plan of boiler forwarded herewith dup already forwarded  
 Survey while building work in shops - - -  
 During erection on board vessel Mar 1, 6, 8, 11, 13, 16, 20, 26, 28, Apr 5, 8, 10, 11, 16, 25, 30 Total No. of visits 35  
May 2, 6, 8, 10, 15, 22, 28, 31

GENERAL REMARKS (State quality of workmanship, opinions as to class, &c.) This Boiler (Truss Type) has been  
constructed under special survey in accordance with the approved plan & the rules  
of this Society, the materials & workmanship are good, the boiler was tested by hydraulic  
pressure as above found sound & tight. It has been properly fitted secured on board the  
vessel & its safety valves adjusted under steam. The vessel has been built under the inspection  
of the British Corporation

Survey Fee £ 4. 6. 0 When applied for, 191  
 Travelling Expenses (if any) £ 8. 6. 0 When received, 191

Frank A. Sturgeon & W. H. Roberts  
 Engineer Surveyor to Lloyd's Register of British and Foreign Shipping.

Committee's Minute

Assigned

FRI. 6 JAN. 1922



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