

REPORT ON BOILERS.

No. 29952

Received at London Office TUE. 22 MAY. 1917

Date of writing Report 1917 When handed in at Local Office 14/5/1917 Port of Hull
 No. in Survey held at Hull Date, First Survey 9th 9/16 Last Survey 15-5-1917
 Reg. Book. on the Steel screw trawler Springwell (Number of Visits 23) Gross 285.66
 Tons Net 112.5
 Master Built at Gole By whom built Gole S.B. & Rpg L.L.
 Engines made at Glasgow By whom made W. Beardmore L.L.
 Boilers made at Hull By whom made C.D. Holmes L.L. (No. 1177) When made 1917
 Registered Horse Power Owners Sun Steam Towing Co. Ld. Port belonging to Hull

MULTITUBULAR BOILERS—MAIN, AUXILIARY OR DONKEY.—Manufacturers of Steel Stewart & Lloyd.

Letter for record 5 Total Heating Surface of Boilers 1823 Is forced draft fitted no No. and Description of Boilers one single ended Working Pressure 20 lbs. Tested by hydraulic pressure to 40 lbs. Date of test 27-3-17
 No. of Certificate 3200 Can each boiler be worked separately Area of fire grate in each boiler 45 sq ft No. and Description of Safety valves to each boiler two spring loaded Area of each valve 5.93 Pressure to which they are adjusted 205 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 8" Mean dia. of boilers 153 1/16 Length 10'-6"
 Material of shell plates steel Thickness 1 5/32 Range of tensile strength 28-32 Are the shell plates welded or flanged no
 Descrip. of riveting: cir. seams double long seams Y.R. & B. Diameter of rivet holes in long. seams 1 5/32 Pitch of rivets 7/8
 Width of plates or width of butt straps 18" Per centages of strength of longitudinal joint rivets 85.2 plate 85.3 Working pressure of shell by rules 201 Size of manhole in shell 16" x 12" Size of compensating ring 7" x 1 5/8"
 No. and Description of Furnaces in each boiler Three Plain Material steel Outside diameter 37" Length of plain part top 78 1/2" Thickness of plates crown 2 49/64 bottom 69" bottom 1/64
 Description of longitudinal joint welded No. of strengthening rings Working pressure of furnace by the rules 204 Combustion chamber
 Details: Material steel Thickness: Sides 1/16 Back 1/16 Top 2 3/32 Bottom 1/16 Pitch of stays to ditto: Sides 9 1/2 x 8 1/2 Back 10 x 8
 If stays are fitted with nuts or riveted heads nuts Working pressure by rules 202 Material of stays steel Area Diameter at smallest part 2.07 Area supported by each stay 85 Working pressure by rules 219 End plates in steam space: Material steel Thickness 1 1/8
 How are stays secured D. & W. Working pressure by rules 207 Material of stays steel Area Diameter at smallest part 5.79
 Area supported by each stay 288 Working pressure by rules 209 Material of Front plates at bottom steel Thickness 7/8 Material of lower back plate steel Thickness 29/32 Greatest pitch of stays 14 x 9 Working pressure of plate by rules 205 Diameter of tubes 5 1/2
 Material of tube plates steel Thickness: Front 7/8 + 5/8 Back 7/8 Mean pitch of stays 11 1/4 Pitch across wide
 Working pressures by rules 217 lbs. Girders to Chamber tops: Material steel Depth and thickness of
 Diameter Length Thickness of shell plates Material Description of longitudinal joint Diam. of rivets
 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,
 p. pro CHARLES D. HOLMES & CO. LTD
 Manufacturer.
 C. D. Holmes
 DIRECTOR

During progress of work in shops 1916 Nov 9, 1917 Jan 9, 16, 23, 25 Feb 1, 7, 9, 13, 16, 23 Is the approved plan of boiler forwarded herewith
 During erection on board vessel 28. Mar 1, 5, 8, 14, 15, 29, 23, 27 Apr 13, 14
 May 15 Total No. of visits 23

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

Survey Fee £ ... When applied for, 1917
 Travelling Expenses (if any) £ ... When received, 1917
 Fees Charged at Glasgow.

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