

REPORT ON BOILERS

No. 30643

Received at London Office

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Date of writing Report 101 When handed in at Local Office 6/8 1918 Port of Hull
 No. in Survey held at Hull Date, First Survey Feb 25/18 Last Survey 3-8-12 1918
 Reg. Book. on the steel screw tug "Laney" (Number of Visits 67) Gross 574 Tons Net 208
 Master Hessle Built at Hessle By whom built Livingstone & Cooper When built 1912-2
 Engines made at Birmingham By whom made Belliss & Morcom When made 1912-2
 Boilers made at Hull By whom made Earle's Co. Ltd When made 1912-2
 Registered Horse Power 186 Owners British Admiralty Port belonging to

MULTITUBULAR BOILERS—MAIN, AUXILIARY OR DONKEY.—Manufacturers of Steel John Spencer Sons

(Letter for record S) Total Heating Surface of Boilers 3600 sq ft Is forced draft fitted no No. and Description of Boilers Two single ended Working Pressure 180 Tested by hydraulic pressure to 360 Date of test 17-5-12
 No. of Certificate A 3295 Can each boiler be worked separately yes Area of fire grate in each boiler 66 sq ft No. and Description of safety valves to each boiler Two spring loaded Area of each valve 7.56 sq in Pressure to which they are adjusted 185 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 two feet Int dia. of boilers 169 2/32 Length 10'-6"
 Material of shell plates steel Thickness 1 7/32 Range of tensile strength 28-32 lbs Are the shell plates welded or flanged no
 Descrip. of riveting: cir. seams double long. seams J.P.D.B.S. Diameter of rivet holes in long. seams 1 3/16 Pitch of rivets 8 9/16
 Lap of plates or width of butt straps 17 1/2 Per centages of strength of longitudinal joint rivets 85.7 plate 85.7 Working pressure of shell by rules 183 Size of manhole in shell 20" x 16" Size of compensating ring 12" x 1 9/32 No. and Description of Furnaces in each boiler Three Crown Material steel Outside diameter 48 1/4 Length of plain part top ✓ bottom ✓ Thickness of plates crown 1 19/32 bottom 1 19/32
 Description of longitudinal joint welded No. of strengthening rings ✓ Working pressure of furnace by the rules 195 Combustion chamber plates: Material steel Thickness: Sides 1 9/32 Back 1 9/32 Top 1 9/32 Bottom 3/4 Pitch of stays to ditto: Sides 8 3/4 x 7 Back 8 1/2 x 7 1/2
 Top 9" x 7" If stays are fitted with nuts or riveted heads nuts Working pressure by rules 188 Material of stays steel Diameter at smallest part 1 1/8 Area supported by each stay 64 Working pressure by rules 185 End plates in steam space: Material steel Thickness 1 3/16
 Pitch of stays 1 9/4 x 1 18/2 How are stays secured D.A.W. Working pressure by rules 187 Material of stays steel Diameter at smallest part 6.22
 Area supported by each stay 356 Working pressure by rules 182 Material of Front plates at bottom steel Thickness 1 7/16 Material of Lower back plate steel Thickness 2 7/32 Greatest pitch of stays 14" x 8 1/2" Working pressure of plate by rules 184 Diameter of tubes 3 1/4
 Pitch of tubes 4 7/16 Material of tube plates steel Thickness: Front 1 7/16 Back 1 3/16 Mean pitch of stays 11 Pitch across wide water spaces 14 1/4 Working pressures by rules 182 Girders to Chamber tops: Material steel Depth and thickness of girder at centre 7 3/8 x 2 1/8 Length as per rule 30.58 Distance apart 9 Number and pitch of Stays in each Three 7"
 Working pressure by rules 180 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 ✓

The foregoing is a correct description, ec
As by order Manufacturer.

Dates of Survey } During progress of work in shops - - } 1918 - Feb 25 to Aug 3rd Is the approved plan of boiler forwarded herewith yes
 while building } During erection on board vessel - - - }
 Total No. of visits 67

GENERAL REMARKS (State quality of workmanship, opinions as to class, &c.) These Boilers have been constructed under special survey in accordance with the approved plan & the Rules of this Society the materials & workmanship are good. The boilers have been tested by hydraulic pressure as above found sound & tight. They have been properly fitted & secured on board the vessel in accordance with the specifications & the safety valves adjusted under steam.

Survey Fee 21/6/8 £ 14 : 19 } When applied for, 1918 }
 Travelling Expenses (if any) £ : : } When received, 26/11/1918 }
Frank H. Stanger
 Engineer Surveyor to Lloyd's Register of British and Foreign Shipping.

Committee's Minute TUE. 13 AUG. 1918

Assigned

