

REPORT ON BOILERS.

No. 274

Date of writing Report 23/4/1918 When handed in at Local Office 22/4/1918 Port of Sheffield
 Received at London Office 24.4.18.
 No. in Survey held at Oldbury Date, First Survey 21/4/15 Last Survey 16/4/15
 Reg. Book. on the Admiralty Drifter D 113. (Number of Visits 5)
 Master Lowestoft Built at Lowestoft By whom built Messrs John Chamberlain & Co Gross Tons 177 Net Tons 177
 Engines made at Oldbury By whom made Messrs Edwin Danks & Co L^{td} When made 1915
 Boilers made at Oldbury By whom made Messrs Edwin Danks & Co L^{td} When made 1915
 Registered Horse Power British Admiralty Port belonging to British Admiralty

MULTITUBULAR BOILERS—MAIN, AUXILIARY OR DONKEY.

Letter for record 5 Total Heating Surface of Boilers 814 sq ft Manufacturers of Steel John Spencer & Co L^{td}
 Is forced draft fitted Yes No. and Description of Boilers One, Multitubular

Working Pressure 180 lbs Tested by hydraulic pressure to 360 lbs Date of test 16-4-18
 No. of Certificate 384 Can each boiler be worked separately Yes Area of fire grate in each boiler 36 sq ft No. and Description of Safety valves to each boiler 2 Area of each valve 1.5 sq in Pressure to which they are adjusted 180 lbs

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 10' 0" Mean dia. of boilers 10' 0" Length 9' 6"

Material of shell plates Steel Thickness 27/32" Range of tensile strength 28/32 Are the shell plates welded or flanged Welded

Description of riveting: cir. seams D. Riv long. seams D.B. Tube Riv Diameter of rivet holes in long. seams 7/16" Pitch of rivets 7"

Top of plates or width of butt straps 13 3/4" Per centages of strength of longitudinal joint 86.9 Working pressure of shell by rules 190 lbs

Size of manhole in shell 16 x 12" Size of compensating ring 6" x 27/32" No. and Description of Furnaces in each boiler Two, plain Material Steel Outside diameter 3' 2" Length of plain part 6.4 Thickness of plates 1 1/8"

Description of longitudinal joint Welded No. of strengthening rings 2 Working pressure of furnace by the rules 191 lbs Combustion chamber material: Material Steel Thickness: Sides 9/16" Back 9/16" Top 9/16" Bottom 9/16" Pitch of stays to ditto: Sides 7 1/4" x 8" Back 8" x 7 1/2"

If stays are fitted with nuts or riveted heads Nuts Working pressure by rules 180 lbs Material of stays Steel Area at smallest part 1.5 sq in Area supported by each stay 8 x 7 1/4" Working pressure by rules 180 lbs End plates in steam space: Material Steel Thickness 7/8"

How are stays secured 2. N 1 Nuts Working pressure by rules 180 lbs Material of stays Steel Area at smallest part 3.4 sq in

Area supported by each stay 196 sq in Working pressure by rules 180 lbs Material of Front plates at bottom Steel Thickness 7/8" Material of cover back plate Steel Thickness 7/8" Greatest pitch of stays 8 x 8" Working pressure of plate by rules 180 lbs Diameter of tubes 3 1/4"

Material of tube plates Steel Thickness: Front 7/8" Back 7/8" Mean pitch of stays 10 7/8" Pitch across wide of tubes 4 3/4" x 4 3/4" Working pressures by rules 180 lbs Girders to Chamber tops: Material Yes Depth and thickness of 10"

Length as per rule 10" Distance apart 10" Number and pitch of Stays in each 24

Working pressure by rules 180 lbs Steam dome: description of joint to shell Yes % of strength of joint 100

Thickness of shell plates 27/32" Material Steel Description of longitudinal joint Welded Diam. of rivet holes 7/16"

Working pressure of shell by rules 180 lbs Crown plates Yes Thickness 7/8" How stayed Yes

Superheater. Type None Date of Approval of Plan 23/4/18 Tested by Hydraulic Pressure to 360 lbs

Is a Safety Valve fitted to each Section of the Superheater which can be shut off from the Boiler Yes Pressure to which each is adjusted 180 lbs Is Easing Gear fitted Yes

The foregoing is a correct description, Edwin Danks & Co L^{td} Manufacturer.

During progress of work in shops 21/1 - 13/2 - 20/2 - 7/3 - 19/3 - 16/4/18 the approved plan of boiler forwarded herewith Edwin Danks & Co L^{td}

During erection on board vessel None Total No. of visits 5

GENERAL REMARKS (State quality of workmanship, opinions as to class, &c.)

This boiler has been built under special survey, the material tested in accordance with the Rules and the workmanship is good.

Survey Fee £ 4.10.0 When applied for April 23 1918

Travelling Expenses (if any) £ 1.12.6 When received 8-6-18

Signature P. F. Morton Engineer Surveyor to Lloyd's Register of Shipping.

Committee's Minute FRI. DEC. 13. 1913

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