

## REPORT ON BOILERS.

No. 10503

Received at London Office

SAT OCT 11 1919

Date of writing Report 9.10.19 1919 When handed in at Local Office 9.10.19 19 Port of MIDDLESBRO  
 No. in Survey held at Stockton-on-Tees Date, First Survey 13th Nov 1918 Last Survey 9th Oct. 1919  
 Reg. Book. on the Boiler D 170 for the Admiralty Drifter "FOGBREAK" (S.S.N. 442) (Number of Visits 24) Tons { Gross Net  
 Master Built at Amersham By whom built Messrs Abdela & Mitchell When built  
 Engines made at By whom made By whom made Messrs. Thos. Sudron & Co. Ld (N. 4126 E) When made 1919  
 Boilers made at Stockton By whom made Owners Port belonging to  
 Registered Horse Power

MULTITUBULAR BOILERS MAIN, AUXILIARY OR DONKEY.—Manufacturers of Steel John Spencer & Son Ltd

(Letter for record (S) ) Tot. Heating Surface of Boilers 814 sq ft Is forced draft fitted No. and Description of

Boilers One single ended Working Pressure 180 Tested by hydraulic pressure to 360 Date of test 4.9.19

No. of Certificate 6031 C each boiler be worked separately Area of fire grate in each boiler 30 sq ft No. and Description of

safety valves to each boiler 2 direct spring Area of each valve 3.98 sq in Pressure to which they are adjusted

Are they fitted with easing gear 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 Mean dia. of boilers 10'-0" Length 9'-6"

Material of shell plates steel Thickness 2 3/32 Range of tensile strength 28-32 Are the shell plates welded or flanged no

Descrip. of riveting fir. seams 2 R. lap long. seams 2 B-3 Riv Diameter of rivet holes in long. seams 15/16 Pitch of rivets 7"

Lap of plates on width of butt straps 14" x 3/4 Per centages of strength of longitudinal joint rivets 87.5 plate 86.57 Working pressure of shell by

rules 182 Size of manhole in shell 16" x 12" Size of compensating ring 6 x 2 1/2 No. and Description of Furnaces in each

boiler 2 plain Material steel Outside diameter 38 Length of plain part top 72 1/2 Thickness of plates crown 1/2 bottom 1 1/2

Description of longitudinal joint Weld No. of strengthening rings one Working pressure of furnace by the rules 180 Combustion chamber

plates: Material steel Thickness: Sides 9/16 Back 7/8 Top 9/16 Bottom 7/8 Pitch of stays to ditto: Sides 7 1/4 x 8 Back 8 x 7 1/2

Top 7 x 8 If stays are fitted with nuts or riveted heads none Working pressure by rules 182 Material of stays steel Area at

smallest part 1.504 Area supported by each stay 60 Working pressure by rules 200 End plates in steam space: Material steel Thickness 7/8

Pitch of stays 14 x 14 How are stays secured none Working pressure by rules 185 Material of stays steel Area at smallest part 3.43

Area supported by each stay 189 Working pressure by rules 189 Material of Front plates at bottom steel Thickness 7/8 Material of

Lower back plate steel Thickness 7/8 Greatest pitch of stays 14 1/4 x 7 1/2 Working pressure of plate by rules 205 Diameter of tubes 3 1/4

Pitch of tubes 4 3/8 x 4 1/4 Material of tube plates steel Thickness: Front 7/8 Back 1/2 Mean pitch of stays 9 3/4 Pitch across wide

water spaces 13 1/2 doubled Working pressures by rules 180 Girders to Chamber tops: Material steel Depth and thickness of

girder at centre 8 x 1 1/2 Length as per rule 28 1/2 Distance apart 7 Number and pitch of Stays in each 2 @ 8"

Working pressure by rules 191 Steam dome: description of joint to shell none % of strength of joint

Diameter Thickness of shell plates Material Description of longitudinal joint Diam. of rivet holes

Pitch of rivets Working pressure of shell by rules Crown plates Thickness How stayed

UPERHEATER. Type Date of Approval of Plan Tested by Hydraulic Pressure to

Date of Test Is a Safety Valve fitted to each Section of the Superheater which can be shut off from the Boiler

Diameter of Safety Valve Pressure to which each is adjusted Is Easing Gear fitted

The foregoing is a correct description,  
 THOMAS SUDRON & CO. LIMITED Manufacturer.

Dates of Survey During progress of work in shops - - - 1918-1919  
 while building During erection on board vessel - - -  
 1918-1919  
 Nov. 13-26 Dec 9 Jan 27 Feb. 11-18 Mar 7-11 Apr 11-16 30 Is the approved plan of boiler forwarded herewith yes  
 May 13-20 Jun 19 Jul 10-16 30 Aug 12-27 Sep 11-16 30 Oct 9 Total No. of visits 24

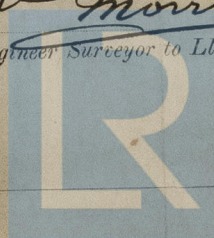
GENERAL REMARKS (State quality of workmanship, opinions as to class, &c.) This boiler has been built under special survey in accordance with the Rules, the approved plan and the specification and on completion was tested by hydraulic pressure with satisfactory results. The materials and workmanship are sound and good.

Survey Fee ... £ 4-10-0 When applied for, Monthly 1919  
 Travelling Expenses (if any) £ : : When received, 1919

Committee's Minute

Assigned

W. Morrison  
 Engineer Surveyor to Lloyd's Register of Shipping.



Lloyd's Register  
 Foundation

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