

REPORT ON BOILERS.

Mult. No. 4448
Sta. No. 22683

Port of MIDDLESBROUGH-ON-TEES.

Received at London Office

1 HUR. 29 MAR 1906

No. in Survey held at Stockton & Date, first Survey 21.12.05 Last Survey 26 March 1906
 Reg. Book. Donkey Boiler No 1991 for S. L. Finn (Number of Visits 76) Tons { Gross 3802.72
 Net 2462.35
 on the Donkey Boiler No 1991 for S. L. Finn When built 1906
 Master Rasmus Olsen Built at Sunderland By whom built J. L. Thompson & Sons when made 1906
 Engines made at Sunderland By whom made J. Dickinson & Sons when made 1906
 Boilers made at Sunderland By whom made J. Dickinson & Sons when made 1906
 Registered Horse Power _____ Owners Jacob Christensen Port belonging to Bergen

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

Letter for record a Total Heating Surface of Boilers 770 sq Is forced draft fitted _____ No. and Description of Boilers One Cyl Multitubular Working Pressure 90 lbs Tested by hydraulic pressure to 150 lbs Date of test 14.2.06
 No. of Certificate 3604 Can each boiler be worked separately Area of fire grate in each boiler 32 sq No. and Description of safety valves to each boiler 2 spring Patent Area of each valve 7.07 sq Pressure to which they are adjusted 90 lbs
 Are they fitted with easing gear Yes In case of donkey boilers, state whether steam from main boilers can enter the donkey boiler No
 Smallest distance between boilers or uptakes and bunkers or woodwork on deck Dia. of boilers 10-0 Length 9-6
 Material of shell plates Steel Thickness 19/32 Range of tensile strength 28/32 Are the shell plates welded or flanged No
 Descrip. of riveting: cir. seams 2.5 in long. seams 2.5 in Diameter of rivet holes in long. seams 15/16 Pitch of rivets 3 1/16
 Lap of plates or width of butt straps 6 1/2 Per centages of strength of longitudinal joint _____ rivets 81.76 Working pressure of shell by rules 74.7%
 No. and Description of Furnaces in each boiler Two plain Material Steel Outside diameter 3-0 Length of plain part _____ top 6-1 Thickness of plates crown 17/32 bottom 8-0 bottom _____
 Description of longitudinal joint Welded No. of strengthening rings _____ Working pressure of furnace by the rules 76 lbs Combustion chamber plates: Material Steel Thickness: Sides 9/16 Back 7/16 Top 9/16 Bottom 21/32 Pitch of stays to ditto: Sides 8 1/2 x 9 1/4 Back 9 1/2 x 9 Top 9 x 9 1/4 If stays are fitted with nuts or riveted heads riveted Working pressure by rules 90 lbs Material of stays Iron Diameter at smallest part 1.45 Area supported by each stay 85.5 Working pressure by rules 101 lbs End plates in steam space: Material Steel Thickness 3/4 Diameter at smallest part 4.3
 Pitch of stays 17 1/2 x 17 1/2 How are stays secured riveted Working pressure by rules 103 lbs Material of stays Iron Diameter at smallest part 4.3
 Area supported by each stay 306.2 Working pressure by rules 105 lbs Material of Front plates at bottom Steel Thickness 3/4 Material of Lower back plate Steel Thickness 3/4 Greatest pitch of stays 13 x 9 Working pressure of plate by rules 142 lbs Diameter of tubes 3 1/4
 Pitch of tubes 4 3/4 x 4 3/8 Material of tube plates Steel Thickness: Front 3/4 Back 1/16 Mean pitch of stays 13.6 Pitch across wide water spaces 14 Working pressures by rules 90 lbs Girders to Chamber tops: Material Steel Depth and thickness of girder at centre 6 1/4 x 1 1/4 Length as per rule 2-1 1/4 Distance apart 9 Number and pitch of Stays in each One 9 1/2
 Working pressure by rules 91 lbs Superheater or Steam chest; how connected to boiler None 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 _____

VERTICAL DONKEY BOILER— No. _____ Description _____ Manufacturers of steel _____
 Made at _____ By whom made _____ When made _____ Where fixed _____
 Working pressure _____ tested by hydraulic pressure to _____ No. of Certificate _____ Fire grate area _____ Description of safety valves _____
 No. of safety valves _____ Area of each _____ Pressure to which they are adjusted _____ If fitted with easing gear _____ If steam from main boilers can enter the donkey boiler _____ Dia. of donkey boiler _____ Length _____ Material of shell plates _____ Thickness _____ Range of tensile strength _____ Descrip. of riveting long. seams _____ Dia. of rivet holes _____ Whether punched or drilled _____ Pitch of rivets _____
 Lap of plating _____ Per centage of strength of joint _____ Rivets _____ Working pressure of shell by rules _____ Thickness of shell crown plates _____ Plates _____
 Radius of do. _____ No. of Stays to do. _____ Dia. of stays _____ Diameter of furnace Top _____ Bottom _____ Length of furnace _____
 Thickness of furnace plates _____ Description of joint _____ Working pressure of furnace by rules _____ Thickness of furnace crown plates _____ Stayed by _____ Diameter of uptake _____ Thickness of uptake plates _____ Thickness of water tubes _____

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

Dates of Survey while building { During progress of work in shops - - } 1905 December 21
 { During erection on board vessel - - - } 1906 January 4, 24, 26, 28, Feb'y 6, 7, 9, 12, 14
 Total No. of visits _____

Is the approved plan of main boiler forwarded herewith _____
 " " " donkey " _____



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

This boiler has been constructed under Special Survey the materials and workmanship are good & efficient & when tested with hydraulic pressure was found tight and satisfactory. The boiler has been sent to Amsterdam to be fitted on board the vessel.

Boiler examined under steam and safety valves adjusted, same satisfactory.

REPAIR

REPAIR

Certificate (if required) to be sent to
(The Surveyors are requested not to write on or below the space for Committee's Minute.)

The amount of Entry Fee...	£	:	:	When applied for.
Special	£	:	:	2. 2. 1906
Donkey Boiler Fee ...	£	2	2	0
Travelling Expenses (if any) £	:	:	:	5. 2. 1906

AND *Geo. A. Wilner* Rnr Coomber
Engineer Surveyor to Lloyd's Register of British and Foreign Shipping.

Committee's Minute FRI. 30 MAR 1906

Assigned



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Foundation