

REPORT ON BOILERS.

Appl. No. 12998.
No. 4444

Port of MIDDLESBROUGH-ON-TEES.

Received at London Office MON. 2 JUL 1906

To, in Survey held at Stockton Date, first Survey January 4 Last Survey 19__
 Book. supp. the Donkey Boiler No 2068 for W. Howther Haugh (Number of Visits) _____
 Tons } Gross _____
 } Net _____
 When built _____
 Built at _____ By whom built _____ when made _____
 By whom made _____ when made _____
 By whom made _____ when made _____
 Owners _____ Port belonging to _____

MULTITUBULAR BOILERS ~~MARY DONKEY~~ **DONKEY.** Manufacturers of Steel Thos. Suddron & Sons
 Is forced draft fitted No No. and Description of _____

Total Heating Surface of Boilers 604 sq ft Tested by hydraulic pressure to 180 lb Date of test 3-3-06
 Working Pressure 90 lb Area of fire grate in each boiler 26.5 sq ft No. and Description of _____

Can each boiler be worked separately Yes Area of each valve 5.72 Pressure to which they are adjusted 95 lb
 No. of Certificate 3625 In case of donkey boilers, state whether steam from main boilers can enter the donkey boiler No

Are they fitted with easing gear Yes Smallest distance between boilers or uptakes and bunkers or woodwork 18" Dia. of boilers 9'-0" Length 9'-0"

Material of shell plates Steel Thickness 17/32 Range of tensile strength 28/32 Are the shell plates welded or flanged No
 Descrip. of riveting: cir. seams 1/4" riv long. seams 1/2" riv Diameter of rivet holes in long. seams 15/16 Pitch of rivets 3 1/2

Gap of plates or width of butt straps 6 1/2 Per centages of strength of longitudinal joint _____ Working pressure of shell by _____
 Rules 90 lbs Size of manhole in shell 16 x 12 Size of compensating ring 5 1/2 x 3/4 No. and Description of Furnaces in each _____

boiler Two plain Material Steel Outside diameter 2'-9" Length of plain part _____ Thickness of plates crown 1/2" bottom 1/2"
 Description of longitudinal joint Welded No. of strengthening rings _____ Working pressure of furnace by the rules 97 lb Combustion chamber _____

plates: Material Steel Thickness: Sides 17/32 Back 9/16 Top 17/32 Bottom 5/8 Pitch of stays to ditto: Sides 9 1/4 x 8 1/4 Back 9 x 9
 Top 8 1/2 x 9 3/4 If stays are fitted with nuts or riveted heads Nut heads Working pressure by rules 93 lb Material of stays Iron Diameter at _____

smallest part 1.45" Area supported by each stay 81" Working pressure by rules 107 lb End plates in steam space: Material Steel Thickness 3/4"
 Pitch of stays 15 1/2 x 16 1/2 How are stays secured Welded Working pressure by rules 104 lb Material of stays Iron Diameter at smallest part 5.43"

Area supported by each stay 256" Working pressure by rules 100 lb 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 146 lb Diameter of tubes 3"

Pitch of tubes 4 1/4 x 4 1/4 Material of tube plates Steel Thickness: Front 3/4 Back 9/16 Mean pitch of stays 10.6 Pitch across wide _____
 water spaces 13 1/2 Working pressures by rules 110.5 lb Girders to Chamber tops: Material Steel Depth and thickness of _____

girder at centre 5 1/2 x 1 1/4 Length as per rule 22 3/8 Distance apart 8 1/2 x 8 1/4 Number and pitch of Stays in each One, 8 1/16
 Working pressure by rules 92 lb 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 _____
 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 & SONS LIMITED Manufacturer. of Donkey Boilers

1906 January 4, 21 February 13, 14, 22, 24 March 1, 4, 13.

Dates of Survey while building: During progress of work in shops - - -
 During erection on board vessel - - -
 Total No. of visits _____

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

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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 and when tested with hydraulic pressure was found tight and satisfactory. The boiler has been sent to Northpool to be fitted on board the vessel.

This boiler has now been fitted on board & the safety valves adjusted under steam

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	£	:	:	19
Donkey Boiler Fee ...	£	2	:	2
Travelling Expenses (if any) £	:	:	:	

will be

When received

of 14.4.06

Geo. A. Milner & Tho. L. Thornton
Engineer Surveyor to Lloyd's Register of British and Foreign Shipping.

Committee's Minute

TUES. 3 JUL 1906

Assigned

ca minute on Hpe Rpt
No 12998



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