

REPORT ON BOILERS.

No. 4601

Port of MIDDLESBROUGH-ON-TEES

mbro. Hull No. 18284
WED. 29 AUG 1906

No. in Survey held at Stockton & Date, first Survey May 5. 1905 Last Survey 18th Aug 1906
Reg. Book. on the Donkey Boiler No 1994 for Se. St. Tees. (Number of Visits.)
Master Built at By whom built When built
Engines made at By whom made when made
Boilers made at Stockton By whom made J. Sudron & Co. Ltd when made 1905
Registered Horse Power Owners Port belonging to

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

(Letter for record)	Total Heating Surface of Boilers	Is forced draft fitted	No. and Description of
Boilers	Working Pressure	Tested by hydraulic pressure to	Date of test
No. of Certificate	Can each boiler be worked separately	Area of fire grate in each boiler	No. and Description of
safety valves to each boiler	Area of each valve	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	Length	
Material of shell plates	Thickness	Range of tensile strength	Are the shell plates welded or flanged
Descrip. of riveting: cir. seams	long. seams	Diameter of rivet holes in long. seams	Pitch of rivets
Lap of plates or width of butt straps	Per centages of strength of longitudinal joint	Working pressure of shell by	
rules	Size of manhole in shell	Size of compensating ring	No. and Description of Furnaces in each
boiler	Material	Outside diameter	Length of plain part
Description of longitudinal joint	No. of strengthening rings	Working pressure of furnace by the rules	Combustion chamber
plates: Material	Thickness: Sides	Back	Top
Bottom	Pitch of stays to ditto: Sides	Back	
Top	If stays are fitted with nuts or riveted heads	Working pressure by rules	Material of stays
Diameter at	smallest part	Area supported by each stay	Working pressure by rules
End plates in steam space: Material	Thickness	Pitch of stays	How are stays secured
Working pressure by rules	Material of stays	Diameter at smallest part	
Area supported by each stay	Working pressure by rules	Material of Front plates at bottom	Thickness
Material of	Lower back plate	Thickness	Greatest pitch of stays
Working pressure of plate by rules	Diameter of tubes	Pitch of tubes	Material of tube plates
Thickness: Front	Back	Mean pitch of stays	Pitch across wide
water spaces	Working pressures by rules	Girders to Chamber tops: Material	Depth and thickness of
girder at centre	Length as per rule	Distance apart	Number and pitch of Stays in each
Working pressure by rules	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			

VERTICAL DONKEY BOILER— No. One Description Vertical 2 horse boiler Manufacturers of steel John Spence & Sons Ltd
Made at Stockton By whom made J. Sudron & Co. Ltd When made 1905 Where fixed in stockhold.
Working pressure 100 lbs tested by hydraulic pressure to 200 lbs No. of Certificate 3446 Fire grate area 14 sq Description of safety valves one spring
No. of safety valves one Area of each 3-11/16 Pressure to which they are adjusted 100 lbs If fitted with easing gear yes If steam from main boilers can enter the donkey boiler No Dia. of donkey boiler 5'-0" Length 9'-6" Material of shell plates steel Thickness 13/16 Range of tensile strength 27/32 Descrip. of riveting long. seams LD Riv Dia. of rivet holes 13/16 Whether punched or drilled Drilled Pitch of rivets 2 3/4
Lap of plating 4 1/2 Per centage of strength of joint Rivets 79.2% Working pressure of shell by rules 102 lbs Thickness of shell crown plates 2 1/32
Radius of do. 3'-9" No. of Stays to do. none Dia. of stays — Diameter of furnace Top 3'-11" Bottom 4'-5" Length of furnace 3'-10"
Thickness of furnace plates 17/32 Description of joint LD Riv Riv Working pressure of furnace by rules 106 lbs Thickness of furnace crown plates 1 1/16 Stayed by Diked 5'-9" Diameter of uptake 13" Thickness of uptake plates 3/8 Thickness of water tubes 3/8

The foregoing is a correct description.
THOMAS SUDRON & CO. LIMITED Manufacturer. of Donkey Boilers.
1905 May 5-9-11-14

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 " " " Yes

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 in the yard since testing 17-5-05 but not in use.

This boiler has been fitted on board, and tested under steam and found satisfactory, and safety valves adjusted to 100 lbs per sq inch

James Barclay

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	£	:	:	9.6 1905
Donkey Boiler Fee ...	£	2	: 2 : 0	When received,
Travelling Expenses (if any) £	:	:	:	21.6 1905

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

Committee's Minute

FRI. 31 AUG 1906

Assigned

See Minute on Hul Rpt.

No 18284



© 2021
Lloyd's Register
Foundation