

Rpt. 5.

REPORT ON BOILERS.

Hull No. 12925.
No. 4421Port of MIDDLESBROUGH-ON-TEES.

Received at London Office

TUES. 1 MAY 1906

No. in Survey held at Stockton
Reg. Book.Date, first Survey 14 Nov 1905 Last Survey

19

(Number of Visits)

Gross 3801.22Tons Net 2469.98When built 1906Built on the Donkey Boiler No 2067 for Mr. "Beesborough"Master R.W. Hildes Built at Hartlepool By whom built James Hildes & Co LtdEngines made at Hartlepool By whom made Hickinson, Westgate & Co Ltd when made 1906Boilers made at Hartlepool By whom made Hickinson, Westgate & Co Ltd when made 1906Registered Horse Power 100 Owners Hull Steam Shipping Co Ltd Port belonging to HullMULTITUBULAR BOILERS—MAIN, AUXILIARY OR DONKEY.—Manufacturers of Steel John Spencer & Sons Ltd(Letter for record A) Total Heating Surface of Boilers 820 sq ft Is forced draft fitted No No. and Description ofBoilers One cyl multitubular Working Pressure 90 lb Tested by hydraulic pressure to 180 lb Date of test 9-2-06No. of Certificate 3601 Can each boiler be worked separately — Area of fire grate in each boiler 32 sq ft No. and Description ofsafety valves to each boiler 2 Spring Area of each valve 5.7 sq in Pressure to which they are adjusted 90 lbAre they fitted with easing gear yes In case of donkey boilers, state whether steam from main boilers can enter the donkey boiler NoSmallest distance between boilers or uptakes and bunkers or woodwork 18 in Dia. of boilers 10-0 Length 10-0Material of shell plates Steel Thickness 19/32 Range of tensile strength 28/32 Are the shell plates welded or flanged NoDescrip. of riveting: cir. seams 2 S 7 in long. seams 2 S 7 in Diameter of rivet holes in long. seams 15/16 Pitch of rivets 3 1/2Lap of plates or width of butt straps 6 1/2 Per centages of strength of longitudinal joint rivets 80.3 Working pressure of shell byrules 91.5 lb Size of manhole in shell 16 x 12 Size of compensating ring 5 1/2 x 13/16 No. and Description of Furnaces in eachboiler Two, plain Material Steel Outside diameter 3-0 Length of plain part 6-7 Thickness of plates crown 9/16Description of longitudinal joint Welded No. of strengthening rings — Working pressure of furnace by the rules 90.4 lb Combustion chamberplates: Material Steel Thickness: Sides 9/16 Back 9/16 Top 9/16 Bottom 21/32 Pitch of stays to ditto: Sides 8 7/8 x 9 1/2 Back 9 x 9 1/2Top 9 x 9 1/2 If stays are fitted with nuts or riveted heads 11 in heads Working pressure by rules 94.6 lb Material of stays Iron Diameter atsmallest part 1-45 Area supported by each stay 85.5 sq in Working pressure by rules 102 lb End plates in steam space: Material Steel Thickness 13/16Pitch of stays 17 1/2 x 17 1/2 How are stays secured 2 x 11 Working pressure by rules 102 lb Material of stays Iron Diameter at smallest part 4-30Area supported by each stay 306.2 sq in Working pressure by rules 105 lb Material of Front plates at bottom Steel Thickness 13/16 Material ofLower back plate Steel Thickness 13/16 Greatest pitch of stays 13 x 9 Working pressure of plate by rules 134 lb Diameter of tubes 3 1/4Pitch of tubes 4 3/4 x 4 3/8 Material of tube plates Steel Thickness: Front 13/16 Back 11/16 Mean pitch of stays 13.7 Pitch across widewater spaces 14 Working pressures by rules 103 lb Girders to Chamber tops: Material Steel Depth and thickness ofgirder at centre 6 1/4 x 1 1/4 Length as per rule 25 1/4 Distance apart 9 Number and pitch of Stays in each One 9 1/2Working pressure by rules 90 lb Superheater or Steam chest: how connected to boiler None Can the superheater be shut off and the boiler workedseparately — Diameter — Length — Thickness of shell plates — Material — Description of longitudinal joint — Diam. of rivetholes — 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 & CO. LIMITED.

Manufacturer. of Donkey BoilersDates of Survey while building
During progress of work in shops --
During erection on board vessel --
Total No. of visits

1905 Nov. 14 Dec. 21 1906 Jan'y 20 Feb'y 7-9

Is the approved plan of main boiler forwarded herewith

" " " donkey " "

© 2021

Lloyd's Register
Foundation

W596-0167

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

This boiler has been made under Special Survey the materials and workmanship are good & efficient and when tested with hydraulic pressure was found tight and satisfactory.

This boiler has been securely fitted on board the safety valves adjusted under steam to the working pressure.

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	:	When received,
Travelling Expenses (if any) £	:	:	:	19...

Committee's Minute

FRI, 4 MAY 1906

Assigned

See Minute on H.P. R.P.
No 12925

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



© 2021

Lloyd's Register
Foundation