

REPORT ON BOILERS.

51972
No. 5238
MUN. 14 FEB 1910

Received at London Office

Date of writing Report 10 When handed in at Local Office 10 Port of MIDDLESBROUGH-ON-TEES.

No. in Survey held at Stockton & Newcastle only Date, First Survey 9th May 1907 Last Survey 9th July 1910

Reg. Book. on the Donkey Boiler No 2229 for s/s 'Boverton' (Number of Visits) Gross 317 Tons Net 1953

Master Walleud Built at Newcastle By whom built J. S. S. 132 Co Ltd When built 1901/1910

Engines made at Walleud By whom made North Eastern Marine Eng^g Co Ltd when made 1910

Rivets Donkey Boilers made at Stockton By whom made J. Sudron & Co Ltd when made 1907

Plates Donkey

Registered Horse Power 160 Owners Ever Shanks Redcliffe & Co. Port belonging to Cardiff

MULTITUBULAR BOILERS—MAIN, AUXILIARY OR DONKEY.—Manufacturers of Steel J. Spence & Son Ltd

Letter for record a Total Heating Surface of Boilers 621 sq ft Is forced draft fitted no No. and Description of Boilers One cyl Tubular Working Pressure 90 lbs Tested by hydraulic pressure to 180 lbs Date of test 26-9-07

No. of Certificate 4021 Can each boiler be worked separately — Area of fire grate in each boiler 26.5 sq ft No. and Description of safety valves to each boiler 2 Spring Patent Area of each valve 5.41 sq in 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 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 L.S. Riv. long. seams L. Riv. Diameter of rivet holes in long. seams 15/16" Pitch of rivets 3 1/2"

Lap of plates or width of butt straps 6 1/2" Per centages of strength of longitudinal joint rivets 73.3 plate 94.5 Working pressure of shell by rules 90.4 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 5'-10 1/2" Thickness of plates crown 1/2" bottom 7/8"

Description of longitudinal joint Welded No. of strengthening rings — Working pressure of furnace by the rules 98 lbs Combustion chamber plates: Material Steel Thickness: Sides 9/16" Back 9/16" Top 9/16" Bottom 5/8" Pitch of stays to ditto: Sides 9 1/4" x 9" Back 9" x 9"

Top 8 1/2" x 9" If stays are fitted with nuts or riveted heads Yes Working pressure by rules 98 lbs Material of stays Iron Diameter at smallest part 1.45" Area supported by each stay 82.12 sq in Working pressure by rules 141 lbs 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 lbs Material of stays Iron Diameter at smallest part 3.48"

Area supported by each stay 255.75 sq in Working pressure by rules 100 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 148 lbs Diameter of tubes 3 1/4"

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 9.51" Pitch across wide water spaces 13 1/2" Working pressures by rules 110 lbs Girders to Chamber tops: Material Steel Depth and thickness of girder at centre 5 3/4" x 1 1/4" Length as per rule 24" Distance apart 8 1/2" Number and pitch of Stays in each One 9"

Working pressure by rules 96 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

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

Dates of Survey During progress of work in shops - - - 1904 May 9 June 24 July 15-26 Aug 5-24
 while building During erection on board vessel - - - Sept 5-12-20-26
 Is the approved plan of boiler forwarded herewith Yes
 Sent London with 166 report
 Total No. of visits 166

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. This boiler has been carefully attended to & kept coated during the time it has been in the works, & in my opinion may be considered as a new boiler at this date 1910; it has been satisfactorily mounted, & the safety valves adjusted under steam.

Survey Fee ... £ 2 : 2 : 0 } When applied for, 19
 Travelling Expenses (if any) £ : : } When received, 19

Geo. A. Milner R. Coomber
 Engineer Surveyor to Lloyd's Register of British and Foreign Shipping.

Committee's Minute FRI. 18 FEB 1910

Assigned

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