

REPORT ON BOILERS.

No. 4253

Port of

Received at London Office **SAT. 16 SEP 1905**

No. in Survey held at Stockton Date, first Survey 5th July Last Survey 18th July 1905
 on the Steel S.S. "Arsonian" (Number of Visits 6)
 Master H. Evans Built at Stockton By whom built Richardson Dock & Co When built 1905
 Engines made at Stockton By whom made Blair & Co when made 1905
 Boilers made at Stockton By whom made Wiley Bros & Co No 3502 when made 1905
 Registered Horse Power Owners L. W. William Port belonging to Candiff

MULTITUBULAR BOILERS—MAIN, AUXILIARY OR DONKEY.—Manufacturers of Steel J. Spencer & Son
 Letter for record (a)) Total Heating Surface of Boilers 867 4 Is forced draft fitted No No. and Description of
 boilers One cyl Multitubular Working Pressure 90 lb Tested by hydraulic pressure to 180 lb Date of test 18-7-05
 No. of Certificate 3486 Can each boiler be worked separately — Area of fire grate in each boiler 29 4 No. and Description of
 safety valves to each boiler Two Spring Area of each valve 7.07 4 Pressure to which they are adjusted 90 lb
 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 9" diam. of boilers 10-0 Length 10-0
 Material of shell plates Steel Thickness 9/16 Range of tensile strength 27/32 Are the shell plates welded or flanged No
 Descrip. of riveting: cir. seams 2 9/16 long. seams D Butt Diameter of rivet holes in long. seams 13/16 Pitch of rivets 3 1/2
 Lap of plates or width of butt straps 8 1/2 Per centages of strength of longitudinal joint rivets 78-8 Working pressure of shell by
 rules 93.2 lb Size of manhole in shell 16 x 12 Size of compensating ring 7 1/2 x 9/16 No. and Description of Furnaces in each
 boiler Two plain Material Steel Outside diameter 3-0 Length of plain part top 6-6 Thickness of plates crown 9/16
 Description of longitudinal joint Welded No. of strengthening rings — Working pressure of furnace by the rules 90 lb Combustion chamber
 plates: Material Steel Thickness: Sides 1/2 Back 1/2 Top 7/16 Bottom 7/8 Pitch of stays to ditto: Sides 7 x 9 1/2 Back 8 1/4 x 9 1/2
 Top 7 x 7 If stays are fitted with nuts or riveted heads No Working pressure by rules 99 lb Material of stays Iron Diameter at
 smallest part 1 3/8 Area supported by each stay 78.1 4 Working pressure by rules 111 lb End plates in steam space: Material Steel Thickness 27/32
 Pitch of stays 8 x 1 1/4 How are stays secured Nuts & washers Working pressure by rules 112 lb Material of stays Iron Diameter at smallest part 2 1/2
 Area supported by each stay 306 4 Working pressure by rules 120 lb Material of Front plates at bottom Steel Thickness 27/32 Material of
 Lower back plate Steel Thickness 27/32 Greatest pitch of stays 12 x 9 1/2 Working pressure of plate by rules 80 lb Diameter of tubes 8 1/2
 Pitch of tubes 4 3/4 x 4 1/2 Material of tube plates Steel Thickness: Front 27/32 Back 9/16 Mean pitch of stays 9.3 Pitch across wide
 water spaces 13 1/2 Working pressures by rules 120 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 27 Distance apart 7 Number and pitch of Stays in each Two 7
 Working pressure by rules 99 lb Superheater or Steam chest; how connected to boiler No 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,

Manufacturer.

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

1905 July 5. 10. 11. 14. 15. 18

Is the approved plan of main boiler forwarded herewith

" " " donkey " " " "

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

The Donkey boiler for this vessel was constructed under special survey the materials & workmanship are good & efficient & when tested under steam runs from satisfactory

(The space for Committee's Minute.)

1. Amount of Entry Fee...	£	:	:	When applied for,
Special ...	£	:	:	3. 5. 1905
Donkey Boiler Fee ...	£	2	:	2. 0. 0
Travelling Expenses (if any) £	:	:	:	When received, 8. 4. 1905

Committee's Minute

TUES. 19 SEP 1905

Signed

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

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Signal Letter

Official Nu

1199

No., Date, and

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Ship's

Dated at

W B & L (830)



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