

REPORT ON BOILERS.

No. 8428
THU. OCT. - 1. 1914
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Received at London Office

Writing Report 12.5.14 191 When handed in at Local Office 13.5.14 191 Port of MIDDLESBRO
 in Survey held at Stockton-on-Tees Date, First Survey 20th Dec. Last Survey 8th May 1914
 Book. on the s/s Elwy
 Built at Shields By whom built C. R. Rensoldson & Co When built 1914-9
 Made at Shields By whom made Shields Engineering & Ship Bldg Co. When made 1914-9
 Made at Stockton By whom made Messrs Riley Bros Ltd (No. 4690) When made 1914
 Horse Power 58 Owners R. & D. Jones Ltd Port belonging to Liverpool

WATER TUBULAR BOILERS—MAIN, AUXILIARY OR DONKEY.—Manufacturers of Steel John Spencer & Sons
 for record (5) Total Heating Surface of Boilers 1080 sq ft Is forced draft fitted No. and Description of
 One single ended Working Pressure 130 Tested by hydraulic pressure to 260 Date of test 8.5.14
 of Certificate 5292 Can each boiler be worked separately Area of fire grate in each boiler 33.9 sq ft No. and Description of
 valves to each boiler two direct spring Area of each valve 4.9 sq ft Pressure to which they are adjusted 135 lb
 they fitted with easing gear Yes In case of donkey boilers, state whether steam from main boilers can enter the donkey boiler
 least distance between boilers or uptakes and bunkers or woodwork 9 ft Inside diam. of boilers 11'-6" Length 9'-6"
 Material of shell plates steel Thickness 3/8 Range of tensile strength 29 3/4 - 33 Are the shell plates welded or flanged No
 Description of riveting: cir. seams 2 R. lap long. seams 2 B. 3 Riv Diameter of rivet holes in long. seams 15/16 Pitch of rivets 6 3/4
 of plates or width of butt straps 12 1/2 x 3/8 Per centages of strength of longitudinal joint rivets 88.2 Working pressure of shell by
 139 Size of manhole in shell 19 x 15 Size of compensating ring 7 x 27 1/2 in. mil No. and Description of Furnaces in each
 2 plain Material steel Outside diameter 42" Length of plain part top 67 1/2 Thickness of plates crown 2 1/32
 bottom 76 bottom 1 3/32 man
 Description of longitudinal joint Weld No. of strengthening rings none Working pressure of furnace by the rules 138 Combustion chamber
 Material steel Thickness: Sides 3/8 Back 3/8 Top 3/8 Bottom 13/16 Pitch of stays to ditto: Sides 9 x 9 Back 8 x 9
 8 1/2 x 9 If stays are fitted with nuts or riveted heads none Working pressure by rules 135 Material of stays steel Diameter at
 smallest part 1.19 Area supported by each stay 72 Working pressure by rules 132 End plates in steam space: Material steel Thickness 27/32
 of stays 17 x 15 How are stays secured none Working pressure by rules 131 Material of stays steel Diameter at smallest part 3.26
 Area supported by each stay 25.5 Working pressure by rules 133 Material of Front plates at bottom steel Thickness 27/32 Material of
 lower back plate steel Thickness 27/32 Greatest pitch of stays 14 x 9 Working pressure of plate by rules 178 Diameter of tubes 3 1/4
 Pitch of tubes 4 1/2 x 4 3/8 Material of tube plates steel Thickness: Front 27/32 Back 1/8 Mean pitch of stays 10 1/4 Pitch across wide
 plate spaces 14 1/4 Working pressures by rules 135 Girders to Chamber tops: Material steel Depth and thickness of
 girder at centre 7 1/4 x 1 1/4 Length as per rule 30 Distance apart 8 1/2 Number and pitch of Stays in each 2 @ 9
 Working pressure by rules 130 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
 Pitch of rivets Working pressure of shell by rules Diameter of flue Material of flue plates Thickness
 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 Date of test 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 Radius of do. Stayed by Diameter of uptake Thickness of uptake plates
 Thickness of water tubes

SURVEY REQUEST
NO. 913 ATTACHED.

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 8
 Dec 20-27, Apr 6-23, May 1-7, 8.
 See Newcastle Report No. 66671

Is the approved plan of main boiler forwarded herewith

yes

" donkey "

" "

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003541-003548-0257

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

This boiler has been built under special survey; is of good material and workmanship and on completion was tested by hydraulic pressure with satisfactory results - The boiler fitted up on board - tested under steam & found good.

The amount of Entry Fee .. £ ☒ :
 Special £ ☒ :
 Monkey Boiler Fee £ 3-12-0 }
 Travelling Expenses (if any) £ ☒ :
 When applied for, MONTHLY A/o.
 When received, 19--

Committee's Minute FRI OCT-2.1914

Assigned

L. Shallcross
 Wm Morrison

Engineer, Surveyor to Lloyd's Register of British & Foreign Shipping.



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