

pt. 5.

REPORT ON BOILERS.

No. 51604

Port of Newcastle on Tyne

Received at London Office

No. in Survey held at Newcastle Date, first Survey 1906 Last Survey 8 Sept 1906
 reg. Book. 17 on the Shel S.S. Port Augusta (Number of Visits)
 Master Hawthorn Leslie & Co Built at Newcastle By whom built Hawthorn Leslie & Co When built 1906
 Engines made at Newcastle By whom made Hawthorn Leslie & Co Ltd when made 1906
 Boilers made at S By whom made S when made 1906
 Registered Horse Power (W Milburn & Co Mgrs) Port belonging to London

Gross 4063
Net 2587

MULTITUBULAR BOILERS ~~MAN~~, AUXILIARY ~~OR~~ ~~DONKEY~~.—Manufacturers of Steel Spencer & Co
 Letter for record S Total Heating Surface of Boilers 1121 Is forced draft fitted No No. and Description of
 Boilers One Cyl. Muel. (aux) Working Pressure 180 Tested by hydraulic pressure to 360 Date of test 13-6-06
 No. of Certificate 7244 Can each boiler be worked separately ✓ Area of fire grate in each boiler 30 No. and Description of
 Safety valves to each boiler Two Spring Area of each valve 3-98 Pressure to which they are adjusted 185
 Are they fitted with easing gear Yes 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 2-0 Mean dia. of boilers 11-0 Length 10-6
 Material of shell plates S Thickness 1/4 Range of tensile strength 29/32 Are the shell plates welded or flanged No
 Descrip. of riveting: cir. seams d lap long. seams d shap Diameter of rivet holes in long. seams 1 1/4 Pitch of rivets 6 1/4
 Top of plates or width of butt straps 12 15/16 Per centages of strength of longitudinal joint rivets 886 Working pressure of shell by
 Rules 192 Size of manhole in shell 16 x 12 Size of compensating ring 33 1/2 x 29 1/8 x 1 1/4 plate 80 No. and Description of Furnaces in each
 Boiler 2 Deighton Material S Outside diameter 37 Length of plain part top ✓ Thickness of plates crown 1/2
 Description of longitudinal joint welded No. of strengthening rings ✓ Working pressure of furnace by the rules 204 Combustion chamber
 plates: Material S Thickness: Sides 5/8 Back 5/8 Top 5/8 Bottom 13/16 Pitch of stays to ditto: Sides 7 x 8 Back 8 x 8
 Top 7 x 8 If stays are fitted with nuts or riveted heads nut Working pressure by rules 211 Material of stays S Area at
 smallest part 1-5 Area supported by each stay 64 Working pressure by rules 187 End plates in steam space: Material S Thickness 1 1/8
 Pitch of stays 15 3/4 x 16 How are stays secured d w + w Working pressure by rules 238 Material of stays S Area at
 Area supported by each stay 252 Working pressure by rules 200 Material of Front plates at bottom S Thickness 1 Material of
 Lower back plate S Thickness 15/16 Greatest pitch of stays as per plan Working pressure of plate by rules 180 Diameter of tubes 3 1/4
 Pitch of tubes 4 1/2 x 4 1/2 Material of tube plates S Thickness: Front 1 Back 3/4 Mean pitch of stays 9 Pitch across wide
 water spaces 14 1/2 Working pressures by rules 226 Girders to Chamber tops: Material S Depth and thickness of
 girder at centre 8 x 1 1/2 Length as per rule 28 Distance apart 8 Number and pitch of Stays in each 3-7
 Working pressure by rules 202 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. 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

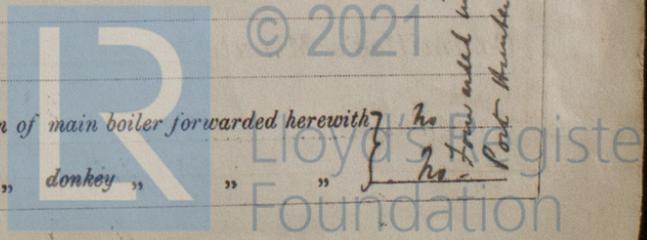
The foregoing is a correct description,

Manufacturer.

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

Please see report on machinery.

Is the approved plan of main boiler forwarded herewith
 " " " donkey " " "



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