

Men R⁵ Stephenson & Co L⁵ No 544 Boiler-
Men Sir Armstrong Whitworth & Co S. S. No 779-

Rpt. 5.

REPORT ON BOILERS.

No. 51609

WED. 19 SEP 1906

Port of Newcastle on Tyne Received at London Office

No. in Survey held at Newcastle Date first Survey Last Survey Sep. 12 1906
 Reg. Book Number of Visits
 on the Donkey boiler 1/2" Dakkarah Gross 4691 Tons Net 3001
 Master Hopp Built at Newcastle By whom built Sir Armstrong Whitworth When built 1906
 Engines made at Newcastle By whom made WallSEND Ship & Eng^g Co when made 1906
 Boiler made at D By whom made R⁵ Stephenson & Co when made 1906
 Registered Horse Power Owners Deutsche Impf Ges^h Kosmos Port belonging to Hamburg

MULTITUBULAR BOILERS ~~AND~~ AUXILIARY ~~OR~~ ~~BOILER~~.—Manufacturers of Steel Spencer & Son

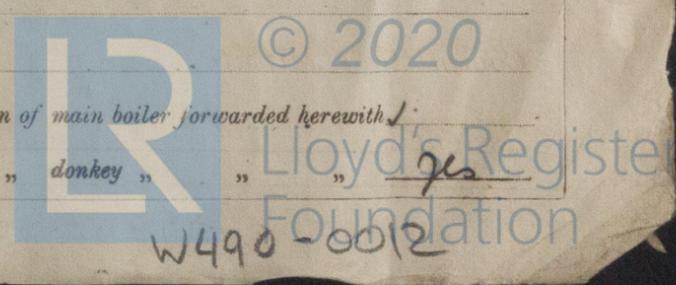
(Letter for record (5)) Total Heating Surface of Boilers 807 sq Is forced draft fitted no No. and Description of Boiler One Cyl^e Mult^e (Aux³) Working Pressure 180 Tested by hydraulic pressure to 360 Date of test 25-7-06
 No. of Certificate 7275 Can each boiler be worked separately ✓ Area of fire grate in each boiler 27 sq No. and Description of safety valves to each boiler 2 Spring Area of each valve 40 Pressure to which they are adjusted 185 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 2 feet Outside dia. of boilers 10-0 Length 10-1
 Material of shell plates S Thickness 57/64 Range of tensile strength 28/32 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 31/32 Pitch of rivets 6 7/8
 Top of plates or width of butt straps 14 3/8 Per centages of strength of longitudinal joint rivets 90 Working pressure of shell by rules 194 Size of manhole in shell 16 x 12 Size of compensating ring Flange Plate 15/16 No. and Description of Furnaces in each boiler 2 Morrison Material S Outside diameter 36 1/2 Length of plain part top ✓ Thickness of plates crown 31/64 bottom
 Description of longitudinal joint welded No. of strengthening rings ✓ Working pressure of furnace by the rules 198 Combustion chamber plates: Material S Thickness: Sides 19/32 Back 19/32 Top 19/32 Bottom 3/4 Pitch of stays to ditto: Sides 7 3/8 x 7 3/8 Back 7 3/8 x 7 3/8 Top 7 3/8 x 7 3/8 If stays are fitted with nuts or riveted heads nut Working pressure by rules 210 Material of stays S Diameter at smallest part 1-45 Area supported by each stay 58 Working pressure by rules 200 End plates in steam space: Material S Thickness 1/8
 Pitch of stays 17 1/2 x 13 1/2 How are stays secured d & w Working pressure by rules 247 Material of stays S Diameter at smallest part 5-05
 Area supported by each stay 230 Working pressure by rules 219 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 3/8 x 4 3/8 Material of tube plates S Thickness: Front 1 Back 3/4 Mean pitch of stays 8 3/4 Pitch across wide water spaces 13 3/4 Working pressures by rules 203 Girders to Chamber tops: Material S Depth and thickness of girder at centre 6 3/4 x 1 1/2 Length as per rule 25 1/4 Distance apart 7 1/4 Number and pitch of Stays in each two 7 3/8
 Working pressure by rules 206 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 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
Manufacturers

Dates of Survey while building { During progress of work in shops - - - } Please see report on machinery.
 { During erection on board vessel - - - }
 Total No. of visits
 Is the approved plan of main boiler forwarded herewith
 " " " donkey " "



W490-0012

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

The boiler has been built under Special Survey, the material & workmanship is good. This boiler has been fitted, examined under steam & its safety valves adjusted to the working pressure.

J. J. Hindley

Certificate (if required) to be sent to the Surveyors and to be kept in the space for Committee's Minute.

The amount of Entry Fee...	£	:	:	When applied for.
Special	£	:	:	18 SEP 1906
Donkey Boiler Fee ...	£	00	:	When received.
Travelling Expenses (if any) £	:	:	:	22-9-06

24/9/06

John H Heck.

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

Committee's Minute FRI. 21 SEP 1906

Assigned



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