

REPORT ON BOILERS.

No. 15578

Port of Greenock Received at London Office WFD, 19 MAY 1909
 No. in Survey held at Greenock Date, first Survey 6th Nov. 1908 Last Survey 11th May 1909
 Reg. Book. (Number of Visits 68)
 Master W. Duffin the Steel S.S. "Bright Wings" (Russell & Co. No. 594) Tons Gross 3116. Net 1992.
 Built at Port Glasgow By whom built Russell & Co. When built 1909.
 Engines made at Greenock By whom made J. G. Kincaid & Co. Ld. when made 1909
 Boilers made at Do. By whom made Do. when made 1909.
 Registered Horse Power _____ Owners N. Hallet & Co. Port belonging to London.

MULTITUBULAR BOILERS—MAIN, AUXILIARY OR DONKEY.—Manufacturers of Steel Beardmore & Co. Lanarkshire

Letter for record S. Total Heating Surface of Boilers 1133 sq ft Is forced draft fitted No. No. and Description of Boilers One S.S. Multitubular Working Pressure 100 lbs. Tested by hydraulic pressure to 200 lbs. Date of test 12/3/09.
 No. of Certificate 920. Can each boiler be worked separately Area of fire grate in each boiler 35.75 sq ft No. and Description of safety valves to each boiler Two, Spring-loaded. Area of each valve 5.9 sq in. Pressure to which they are adjusted 105 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 on uptakes and bunkers on woodwork 18" Mean dia. of boilers 11 ft. Length 10'-6"
 Material of shell plates Steel Thickness 19/32" Range of tensile strength 28 to 32 tons Are the shell plates welded or flanged No.
 Descrip. of riveting: cir. seams D.R. long. seams D.R., D.B. Stays Diameter of rivet holes in long. seams 3/4" Pitch of rivets 1 1/2"
 Lap of plates or width of butt straps 8 3/4" Per centages of strength of longitudinal joint rivets 86-82 Working pressure of shell by rules 102 lbs. Size of manhole in shell 16"x12" Size of compensating ring 30"x26" No. and Description of Furnaces in each boiler Two, plain Material Steel Outside diameter 40 1/4" Length of plain part 78" Thickness of plates crown 19/32" bottom 3/32"
 Description of longitudinal joint Welded No. of strengthening rings Working pressure of furnace by the rules 116 lbs. Combustion chamber plates: Material Steel Thickness: Sides 1/2" Back 1/2" Top 1/2" Bottom 1/2" Pitch of stays to ditto: Sides 9"x8 1/2" Back 9 3/8"x8"
 Top 9"x8 1/2" If stays are fitted with nuts or riveted heads Nuts Working pressure by rules 100 lbs. Material of stays Steel Diameter at smallest part 1.003 in. Area supported by each stay 75 sq in. Working pressure by rules 107 lbs. End plates in steam space: Material Steel Thickness 23/32"
 Pitch of stays 16"x15" How are stays secured D. nuts or washers Working pressure by rules 101 lbs. Material of stays Steel Diameter at smallest part 3.03 in.
 Area supported by each stay 240 sq in. Working pressure by rules 131 lbs. Material of Front plates at bottom Steel Thickness 23/32" Material of Lower back plate Steel Thickness 19/32" Greatest pitch of stays 13" Working pressure of plate by rules 117 lbs. Diameter of tubes 3 1/4" ext.
 Pitch of tubes 4 1/2"x4 1/2" Material of tube plates Steel Thickness: Front 23/32" Back 11/16" Mean pitch of stays 11 1/4" Pitch across wide water spaces 13 1/2" Working pressures by rules 101 lbs. Girders to Chamber tops: Material Steel Depth and thickness of girder at centre 6 1/2"x1 3/8" Length as per rule 29 3/4" Distance apart 8 1/4" Number and pitch of Stays in each 2-9"
 Working pressure by rules 121 lbs. 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 _____ 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 _____ 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 _____

The foregoing is a correct description,
John G. Kincaid & Co. Ld. Manufacturer.

Dates of Survey while building { During progress of work in shops - - }
 { During erection on board vessel - - - }
 Total No. of visits 68. See accompanying report.

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



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

This boiler has been built under special survey; It has been efficiently fitted on board, and the safety valves adjusted under steam. The boiler is now in safe working condition.

Marks on Donkey H^o.

Safety valve washers P³/₈, S³/₈ bare.

*N^o 920
Lloyd's Test.
200 lbs.
12-3-09 R.E.*

Certificate (if required) to be sent to
(The Surveys are requested not to write on or below the space for Committee's Minute.)

The amount of Entry Fee...	£	:	:	When applied for,
Special	£	:	:	19
Donkey Boiler Fee ...	£	:	:	When received,
Travelling Expenses (if any) £	✓	:	:	19

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

Committee's Minute **GLASGOW 18 MAY, 1909**
Assigned See minute on accompanying Report.



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Foundation