

REPORT ON BOILERS.

Received at London Office 22 AUG 1928

Date of writing Report 29.6.28 When handed in at Local Office 14/8/28 Port of Greenock

No. in Reg. Book. Greenock Date, First Survey 12th March 1928 Last Survey 13/8/28

on the S/S "Stirlington Court" (Number of Visits) Gross Tons 1030 Net Tons 657

Master Greenock Built at Newcastle By whom built Armstrong Whitworth Yard No. 1030 When built 1928

Engines made at Greenock By whom made John & Knecht 1928 Engine No. 657 When made 1928

Boilers made at ditto By whom made ditto Boiler No. 65B When made 1928

Nominal Horse Power 574 Owners _____ Port belonging to _____

MULTITUBULAR BOILERS—MAIN, _____.

Manufacturers of Steel Calville, Swain & Steel Co. (Letter for Record)

Total Heating Surface of Boilers 8604 Is forced draught fitted yes Coal or Oil fired Coal

No. and Description of Boilers 3 Single ended 3 SB Working Pressure 180

Tested by hydraulic pressure to 320 Date of test 19.4.28 No. of Certificate 1833 (2) (Port-Cullin) Can each boiler be worked separately

Area of Firegrate in each Boiler 63.25 No. and Description of safety valves to each boiler Double Spring

Area of each set of valves per boiler 2 x 3 1/2" dia as fitted 9.625" Pressure to which they are adjusted 18.4 Are they fitted with easing gear

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 Is oil fuel carried in the double bottom under boilers

Smallest distance between shell of boiler and tank top plating Is the bottom of the boiler insulated

Largest internal dia. of boilers 15.4.48" Length 12.0 Shell plates: Material S Tensile strength 28.32

Thickness 1.9/32" Are the shell plates welded or flanged Description of riveting: circ. seams DR

long. seams TR. O. B. S Diameter of rivet holes in 1.3/8" Pitch of rivets 4.039"

Percentage of strength of circ. end seams 65.75 Percentage of strength of circ. intermediate seam 88

Percentage of strength of longitudinal joint 88 Working pressure of shell by Rules 181

Thickness of butt straps 1.1/8" No. and Description of Furnaces in each Boiler 3 Singletons 3cf.

Material S Tensile strength 26.30 Smallest outside diameter 3-11.3/16"

Length of plain part 19.3/32" Description of longitudinal joint weld

Dimensions of stiffening rings on furnace or c.c. bottom Working pressure of furnace by Rules 183

End plates in steam space: Material S Tensile strength 26.30 Thickness 1.1/4" Pitch of stays 2 1/2" x 19 1/2"

How are stays secured DN.W Working pressure by Rules 186

Tube plates: Material Steel Tensile strength 26.30 Thickness 3/4"

Mean pitch of stay tubes in nests 9.375 Pitch across wide water spaces 13 1/2" Working pressure 183

Girders to combustion chamber tops: Material S Tensile strength 28.32 Depth and thickness of girder 9 1/8"

at centre 10 x 3/4 (2) Length as per Rule 3-1.56" Distance apart 9 1/8" No. and pitch of stays 3 at 9"

Working pressure by Rules 182 Combustion chamber plates: Material S

Tensile strength 26.30 Thickness: Sides 2.1/32" Back 2.1/32" Top 2.1/32" Bottom 2.5/32"

Pitch of stays to ditto: Sides 9" x 9" Back 9" x 9" Top 9" x 9 1/8" Are stays fitted with nuts or riveted over nuts

Working pressure by Rules 185 Front plate at bottom: Material S Tensile strength 26.30

Thickness 1.5/16" Lower back plate: Material S Tensile strength 26.30 Thickness 2.5/32"

Pitch of stays at wide water space 13 3/4" Are stays fitted with nuts or riveted over nuts

Working Pressure 183 Main stays: Material S Tensile strength 28.32

Diameter 3 1/4" & 3 1/2" No. of threads per inch 6 Area supported by each stay 419.25"

Working pressure by Rules 189 Screw stays: Material Iron Tensile strength 21 1/2

Diameter 1 1/8" No. of threads per inch 9 Area supported by each stay 81"



Working pressure by Rules 184 Are the stays drilled at the outer ends 90 Margin stays: Diameter { At turned off part. 1314 ✓
 or Over threads -
 No. of threads per inch 9 Area supported by each stay 90.125 Working pressure by Rules 181
 Tubes: Material Iron External diameter { Plain } 2 1/2" Thickness { 9 WG. } 3/8" No. of threads per inch 9
 Stay }
 Pitch of tubes 33/4 x 33/4" Working pressure by Rules 184 Manhole compensation: Size of opening in
 shell plate 16 1/2 x 20 1/2" Section of compensating ring 3.04 x 2.7 1/4 x 19 1/2" No. of rivets and diameter of rivet holes 38 at 1.5716" ✓
 Outer row rivet pitch at ends 9 1/4" ✓ Depth of flange if manhole flanged 3" Steam Dome: Material ✓
 Tensile strength Thickness of shell Description of longitudinal joint
 Diameter of rivet holes Pitch of rivets Percentage of strength of joint { Plate
 Rivets
 Internal diameter Working pressure by Rules Thickness of crown No. and diameter of
 stays Inner radius of crown Working pressure by Rules
 How connected to shell Size of doubling plate under dome Diameter of rivet holes and pitch
 of rivets in outer row in dome connection to shell

Type of Superheater Manufacturers of { Tubes
 Steel castings
 Number of elements Material of tubes Internal diameter and thickness of tubes
 Material of headers Tensile strength Thickness Can the superheater be shut off and
 the boiler be worked separately Is a safety valve fitted to every part of the superheater which can be shut off from the boiler
 Area of each safety valve Are the safety valves fitted with easing gear Working pressure as per
 Rules Pressure to which the safety valves are adjusted Hydraulic test pressure:
 tubes castings and after assembly in place Are drain cocks or valves fitted
 to free the superheater from water where necessary

Have all the requirements of Sections 14 to 23 inclusive for boilers been complied with
 For JOHN G. KINCAID & COY. LIMITED
 The foregoing is a correct description,
 J. G. Kincaid DIRECTOR Manufacturer.

Dates of Survey { During progress of work in shops - -
 while building { During erection on board vessel - - -
 See Machinery Report Are the approved plans of boiler ~~and report~~ forwarded herewith Yes.
 (If not state date of approval.)
 Total No. of visits ✓

GENERAL REMARKS (State quality of workmanship, opinions as to class, &c.) These Boilers have been built under special survey in accordance with the approved plans & the workmanship & material are of good quality. They have been shipped to Newcastle at which port they will be fitted on board. This Rept. accompanied that of the Machinery.

Survey Fee Charged on Machinery Rept. When applied for, 192
 Travelling Expenses (if any) When received, 192
 W. Gordon Maclellan
 Engineer Surveyor to Lloyd's Register of Shipping.
 10. 16 OCT 1928
 Committee's Minute GLASGOW 21 AUG 1928
 Assigned Deferred
 See N.W. Rept. No. 83359
 Lloyd's Register Foundation