

REPORT ON BOILERS

No. 18300

Received at London Office

30 OCT 1924

Date of writing Report 30/8/24 When handed in at Local Office 2nd October, 1924 Port of Greenock
 No. in Survey held at Greenock Date, First Survey 16th October, 1923 Last Survey 2. 10 - 1924
 Reg. Book. S/S "Bellairba" (Number of Visits 67) Gross Tons }
 on the Net }
 Master Built at Port Glasgow By whom built Lithgow Col. 458 When built 1924
 Engines made at Greenock By whom made John & Kincaid Col. (604) When made 1924
 Boilers made at ditto By whom made ditto (604) When made 1924
 Registered Horse Power Owners Bellairba Steamship Col. 4 Port belonging to

MULTITUBULAR BOILERS — ~~MAIN, AUXILIARY OR~~ DONKEY. — Manufacturers of Steel Steel Co of Scotland, Colvill
 (Letter for record S) Total Heating Surface of Boilers 1062 sq ft Is forced draft fitted no No. and Description of Boilers one single ended Working Pressure 100 Tested by hydraulic pressure to 200 Date of test 22. 7. 24
 No. of Certificate 1661 Can each boiler be worked separately ✓ Area of fire grate in each boiler 33.2 sq ft No. and Description of safety valves to each boiler Double Spring Area of each valve 5.94 sq in Pressure to which they are adjusted 105
 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 16" Mean dia. of boilers 11' 0" Length 10' 0"
 Material of shell plates S Thickness 5/8" Range of tensile strength 28-32 Are the shell plates welded or flanged no
 Descrip. of riveting: cir. seams SR 2 long. seams TR 2 Diameter of rivet holes in long. seams 15/16" Pitch of rivets 4 1/8"
 Lap of plates or width of butt straps 6 7/8" Per centages of strength of longitudinal joint rivets 88 1/2% Working pressure of shell by rules 103 Size of manhole in shell 16" x 12" Size of compensating ring 27 1/2" x 23 1/2" x 1" No. and Description of Furnaces in each boiler 2 plain Material S Outside diameter 39 3/16" Length of plain part 80 3/4" Thickness of plates crown 19/32" bottom 19/32"
 Description of longitudinal joint weld No. of strengthening rings ✓ Working pressure of furnace by the rules 108 Combustion chamber plates: Material S Thickness: Sides 9/16" Back 9/16" Top 9/16" Bottom 13/16" Pitch of stays to ditto: Sides 11' 9/4" Back 11' 9"
 Top 10 1/2' x 9 1/4" If stays are fitted with nuts or riveted heads not Working pressure by rules 105 Material of stays S Area at smallest part 1.19 sq ft Area supported by each stay 99 sq in Working pressure by rules 102 End plates in steam space: Material S Thickness 29/32"
 Pitch of stays 19 1/8" x 19 3/4" How are stays secured DN, DP Working pressure by rules 104 Material of stays S Area at smallest part 4.11 sq ft
 Area supported by each stay 450 sq in Working pressure by rules 110 Material of Front plates at bottom S Thickness 29/32" Material of Lower back plate S Thickness 29/32" Greatest pitch of stays 13 1/2" Working pressure of plate by rules 105 Diameter of tubes 3 1/4"
 Pitch of tubes 4 1/2" x 4 7/16" Material of tube plates S Thickness: Front 29/32" Back 1 1/16" Mean pitch of stays 11 1/8" Pitch across wide water spaces 14 1/4" Working pressures by rules 135 Girders to Chamber tops: Material S Depth and thickness of girder at centre 4 x 14" Length as per rule 29 3/4" Distance apart 10 1/2" Number and pitch of Stays in each 2 at 9 1/4"
 Working pressure by rules 113 Steam dome: description of joint to shell _____ % of strength of joint _____
 Diameter _____ Thickness of shell plates _____ Material _____ Description of longitudinal joint _____ Diam. of rivet holes _____
 Pitch of rivets _____ Working pressure of shell by rules _____ Crown plates _____ Thickness _____ How stayed _____

SUPERHEATER. Type _____ Date of Approval of Plan _____ Tested by Hydraulic Pressure to _____
 Date of Test _____ Is a Safety Valve fitted to each Section of the Superheater which can be shut off from the Boiler _____
 Diameter of Safety Valve _____ Pressure to which each is adjusted _____ Is Easing Gear fitted _____

The foregoing is a correct description,
JOHN G. KINCAID & COY., LIMITED.
Robert Green Secretary/Manufacturer.

Dates of Survey } During progress of work in shops - - }
 while building } During erection on board vessel - - - }
 See Machinery Report. Total No. of visits _____

GENERAL REMARKS (State quality of workmanship, opinions as to class, &c.) This boiler has been built under special survey in accordance with the approved plan & the workmanship & material are of good quality & is now securely fitted on board. This Report accompanies that of the Machinery.

Survey Fee ... £ 4 : 4 : When applied for, 3. 10 - 1924
 Travelling Expenses (if any) £ : : When received, 5. 10 - 1924
W. Gordon-Maclein
 Engineer Surveyor to Lloyd's Register of Shipping.

Committee's Minute GLASGOW 7-OCT 1924
 Assigned See accompanying machinery report

