

REPORT ON BOILERS.

No. 18650

Date of writing Report 4 - 1 - 1927 When handed in at Local Office 29 / 1 / 1927 Port of Cremorne Received at London Office 9 FEB 1927

No. in Survey held at Cremorne Date, First Survey 5th May, 1925. Last Survey 29th January 1927.
 Reg. Book. on the S/S "Newbury" (Number of Visits 181.)

Master Built at P'elongou By whom built R Duncan & Co Ld (369) When built 1924
 Engines/made at Cremorne By whom made Rankin & Blackmore Ld (413) When made 1924
 Boilers made at ditto By whom made ditto (413) When made 1924
 Registered Horse Power Owners Alexander Shipping Co Ld Port belonging to London.

MULTITUBULAR BOILERS—MAIN,

Manufacturers of Steel Steel Co of Scotland
 Aug. Thorne. Hill Works Dept.

(Letter for record S) Total Heating Surface of Boilers 1345 sq ft Is forced draft fitted yes
 Boilers 3 Single Ended Working Pressure 180 Tested by hydraulic pressure to 320 No. and Description of Boilers 3 SB Date of test 14. 12. 26
 No. of Certificate 136 Can each boiler be worked separately yes Area of fire grate in each boiler 59.5 sq ft No. and Description of safety valves to each boiler Double Spring Area of each valve 11.04 sq in 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 14" Mean dia. of boilers 15.0" Length 11.6"
 Material of shell plates S Thickness 17/32" Range of tensile strength 28/32 Are the shell plates welded or flanged —
 Descrip. of riveting: cir. seams DR. long. seams TR. DBS Diameter of rivet holes in long. seams 1 1/4" Pitch of rivets 8 15/16"
1 1/2" width of butt straps Per centages of strength of longitudinal joint rivets 86.7% Working pressure of shell by rules 181 Size of manhole in shell 16 x 12 Size of compensating ring 2 1/2 x 2 1/2 x 10 1/2 plate 86.07%
 boiler 3 Scourged Material S Outside diameter 3.114" Length of plain part top — bottom — Thickness of plates crown 9/16" bottom —
 Description of longitudinal joint weld No. of strengthening rings — Working pressure of furnace by the rules 184 Combustion chamber plates: Material S Thickness: Sides 2 1/32" Back 2 1/32" Top 2 1/32" Bottom 3/4" Pitch of stays to ditto: Sides 8 1/8 x 9 1/2 Back 9 1/4 x 8 1/2
 Top 8 1/8 x 9 1/2 If stays are fitted with nuts or riveted heads yes Working pressure by rules 181 Material of stays S Area at smallest part 236.14 sq in Area supported by each stay 83 sq in Working pressure by rules 186 End plates in steam space: Material S Thickness 19/32"
 Pitch of stays 19 x 2 1/2 How are stays secured DN. Working pressure by rules 181 Material of stays S Area at smallest part 6.66 sq in
 Area supported by each stay 399 sq in Working pressure by rules 184 Material of Front plates at bottom S Thickness 27/32" Material of Lower back plate S Thickness 13/16" Greatest pitch of stays 13 1/4" Working pressure of plate by rules 186 Diameter of tubes 2 3/4"
 Pitch of tubes 4 x 3 7/8" Material of tube plates S Thickness: Front 27/32" Back 3/4" Mean pitch of stays 9.8 Pitch across wide water spaces 13 1/2" Working pressures by rules 184 Girders to Chamber tops: Material S Depth and thickness of girder at centre 9 1/4 x 3/4 (2) Length as per rule 24 19/32" Distance apart 9 1/4" Number and pitch of Stays in each 3 at 8 1/8"
 Working pressure by rules 183 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,
RANKIN & BLACKMORE, LTD.,

Director. Manufacturer.

Dates of Survey — During progress of work in shops —
 while building — During erection on board vessel — See Machinery Report.

Is the approved plan of boiler forwarded herewith yes

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 plan. The workmanship & material are of good quality, they have now been securely fitted on board.

Survey Fee — Charged on Machinery Report —
 Working Expenses (if any) £ — When applied for, 19...
 When received, 19...

Committee's Minute GLASGOW 8 - FEB 1927

Assigned See attached report

W. Gordon-Mitchell © 2020
 Engineer Surveyor to Lloyd's Register of Shipping.

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