

REPORT ON BOILERS.

No. 39244H

10 OCT. 21. 1919

Date of writing Report 20th Oct 1919 When handed in at Local Office 20/10/1919 Port of Glasgow
 No. in Survey held at Glasgow & Lowestoft Date, First Survey 8/11/18 Last Survey 18th Oct 1919
 Req. Book. on the Main Boiler No. 1680 of S.S. "Fort Laverneock" (Number of Visits 18)
 Master Built at Lowestoft By whom built Colby Bros Ltd No 104 When built 1920
 Engines made at Parsley By whom made Campbell Calderwood No 968 When made 1919
 Boilers made at Gordau By whom made Forth Shipbuilding & Engineering Co When made 1919
 Registered Horse Power Owners Fort Shipping Co Ltd Port belonging to Cassitt

MULTITUBULAR BOILERS—MAIN, AUXILIARY OR DONKEY.—Manufacturers of Steel David Colville Bros.

(Letter for record S.) Total Heating Surface of Boilers 1486 sq ft Is forced draft fitted No No. and Description of Boilers One Single Ended.
 Working Pressure 130 Tested by hydraulic pressure to 260 Date of test 18/10/19
 No. of Certificate 14957 Can each boiler be worked separately Yes Area of fire grate in each boiler 49.755 sq ft No. and Description of Safety valves to each boiler 2 Direct Spring Area of each valve 4.06 sq in Pressure to which they are adjusted 135 lbs.
 Are they fitted with easing gear Yes In case of donkey boilers, state whether steam from main boilers can enter the donkey boiler Yes
 Smallest distance between boilers or uptakes and bunkers or woodwork 2' 6" Mean dia. of boilers 13'-0" Length 10'-0"
 Material of shell plates S. Thickness 13/16 Range of tensile strength 28/32 Are the shell plates welded or flanged No
 Description of riveting: cir. seams Lap S.R. long. seams Balls Trip Rivets Diameter of rivet holes in long. seams 19/16 Pitch of rivets 5 7/8
 Width of butt straps 1'-3" Per centages of strength of longitudinal joint Working pressure of shell by rules 130
 Size of manhole in shell 12 1/2 x 16 1/2 Size of compensating ring 2'-6 1/2 x 2'-2 1/2 x 13/16 No. and Description of Furnaces in each boiler Three plain Material Steel Outside diameter 41 ins Length of plain part 72 ins Thickness of plates
 Description of longitudinal joint held No. of strengthening rings None Working pressure of furnace by the rules 140 Combustion chamber Material S. Thickness: Sides 19/32 Back 9/16 Top 19/32 Bottom 19/32 Pitch of stays to ditto: Sides 9" x 10" Back 9 1/4 x 9"
 If stays are fitted with nuts or riveted heads Yes Working pressure by rules 137 Material of stays Steel Area at largest part 1455 sq in Area supported by each stay 39 sq in Working pressure by rules 139 End plates in steam space: Material S Thickness 19/16
 How are stays secured Nuts Washers Working pressure by rules 131 Material of stays Steel Area at smallest part 43 sq in
 Area supported by each stay 315 sq in Working pressure by rules 141 Material of Front plates at bottom Steel Thickness 3/4 Material of back plate Steel Thickness 3/4 Greatest pitch of stays 14" x 9" Working pressure of plate by rules 140 Diameter of tubes 3 1/2
 Material of tube plates S. Thickness: Front 3/4 Back 1/16 Mean pitch of stays 9 1/4 Pitch across wide of tubes 14" Working pressures by rules with doubler 183 Girders to Chamber tops: Material Steel Depth and thickness of girder at centre 7 1/2 x 11/16 x 2 Length as per rule 29 3/4 ins Distance apart 10 ins Number and pitch of Stays in each 10 at 9 ins
 Working pressure by rules 141 Steam dome: description of joint to shell
 Thickness of shell plates Material Description of longitudinal joint Diam. of rivet holes
 Working pressure of shell by rules Crown plates Thickness How stayed

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

Copy request form 2155 attached
 The foregoing is a correct description,
 FOR THE FORTH SHIPBUILDING & ENGINEERING CO., LTD
 (THE FORTH SHIPBUILDING WORKS)
 Manufacturer's James Dick
 During progress of work in shops - 1918 Apr. 8 19. 24. 29. May 10 15. 21. 29. June 4 Is the approved plan of boiler forwarded herewith
 During erection on board vessel - Sept 3. 10. 1919. Aug 19. Sept 3. 9. 15. 22. Oct 6. 18 Total No. of visits 18

GENERAL REMARKS (State quality of workmanship, opinions as to class, &c.)
The boiler has been built under special survey. Workmanship & materials are good.

By Fee £ 4 : 19 : - When applied for, 21. 10. 1919
 Travelling Expenses (if any) £ : : - When received, 28. 10. 1919
ABN
29.

Committee's Minute GLASGOW 21 OCT 1919
 Signed TRANSMIT TO LONDON
 FRI. 19 MAR. 1920
See Lon Rpt 82801
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