

REPORT ON WATER TUBE BOILERS.

No. 90932

Received at London Office

Date of writing Report 15/1/ 1960. When handed in at Local Office 29.1.1960 Port of GLASGOW
 No. in Survey held at Renfrew Date, First Survey Last Survey 19
 Reg. Book. (Number of Visits) Gross Tons Net Tons
 on the S.S. "LAYMOOR".
 Built at Renfrew. By whom built Wm. Simons & Co. Ltd. Yard No. 810 When built 1959.
 Engines made at Renfrew. By whom made Wm. Simons & Co. Ltd. Engine No. 810 When made 1959.
 Boilers made at Renfrew By whom made Wm. Simons & Co. Ltd. Boiler No. 810 When made 1959.
 HS for Register Book 5,200 sq. ft. Owners Admiralty Port belonging to London

WATER TUBE BOILERS—MAIN, AUXILIARY, OR DONKEY.—Manufacturers of Steel

Date of Approval of plan 15.10.57. (London). Design Press. 265 p.s.i. No. and Description of Type of Boilers 2 Foster Wheeler 'D' Type Working Pressure 250psi Tested by Hydraulic Pressure to 450psi Date of Test 18.3.59.
 No. of Certificate 25433/4 Can each boiler be worked separately. Yes. Total Heating Surface of Boilers 5200 sq. ft. Superheaters -
 Half Economisers - Is forced draught fitted. Yes. Area of Fire Grate (coal) in each Boiler -
 No. and type of burners (oil) in each boiler Three Wallsend Admiralty Pattern. No. and description of safety valves on each boiler One 2 3/4" Double Spring Improved High Lift Area of each set of valves per boiler per rule 10.22 sq. in. as fitted 11.9792 sq. in. Pressure to which they are adjusted 257 p.s.i. 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 22" Height of boiler 13'10"
 Width and length 12'9 1/2" & 10'8 3/4" Steam Drums:—Number in each boiler One Inside diameter 3'4"
 Thickness of plates 1.5/32" Range of tensile strength Shell 28-32 ton/sq. in. Are drum shell plates welded or flanged Welded If fusion welded, state name of welding firm Marshall & Anderson Ltd. Have all the requirements of the Rules for Class I vessels been complied with Yes. Description of riveting:—Circ. seams - long. seams -
 Diameter of rivet holes in long. seams - Pitch of rivets - Thickness of straps - Percentage strength of long. joint:—Plate - Rivet - Diameter of tube holes in drum 1 1/8", 2" & 3" Pitch of tube holes 1.13/16" x 3.1/8"
 Percentage strength of shell in way of tubes 35.5% Steam Drum Heads or Ends:—Range of tensile strength 26-30 ton/sq. in. Thickness of plates 7/8" & 1" Radius or how stayed 3'0" Radius Size of manhole or handhole 16" x 12" Water Drums:—Number in each boiler One Inside diameter 2'3" Thickness of plates 1.1/8" Range of tensile strength 28-32 ton/sq. in. Are drum shell plates welded or flanged Welded If fusion welded, state name of welding firm Marshall & Anderson Ltd. Have all the requirements of the Rules for Class I vessels been complied with Yes. Description of riveting:—Circ. seams - long. seams -
 Diameter of rivet holes in long. seams - Pitch of rivets - Thickness of straps - Percentage strength of long. joint:—Plate - Rivet - Diameter of tube holes in drum 1 1/8", 2" & 3" Pitch of tube holes 1.13/16" x 3.1/8"
 Percentage strength of drum shell in way of tubes 35.5% Water Drum Heads or Ends:—Range of tensile strength 26-30 ton/sq. in. Thickness of plates 5/8" x 3/4" Radius or how stayed 27" Radius Size of manhole or handhole 16" x 12"
 Headers or Sections:—Number One Material Mild Steel Thickness 7/8" Tested by hydraulic pressure to 450 lb/sq. in. Tubes:—Diameter 1 1/8", 2" & 3" Thickness 10/16", 1 1/4" & 1 1/2" Number 924, 126 & 4. Steam Dome or Collector:—Description of joint to shell - Inside diameter - Thickness of shell plates - Range of tensile strength - Description of longitudinal joint - If fusion welded, state name of welding firm - Have all the requirements for the Rules for Class I vessels been complied with - Diameter of rivet holes - Pitch of rivets - Thickness of straps - Percentage strength of long. joint - plate - rivet -
 Crown or End Plates:—Range of tensile strength - Thickness - Radius or how stayed -
 SUPERHEATER, Drums or Headers:—Number in each boiler - Inside diameter - Thickness - Material - Range of tensile strength - Are drum shell plates welded or flanged - If fusion welded, state name of welding firm - Have all the requirements of the Rules for Class I vessels been complied with - Description of riveting:—Circ. seams - long. seams -
 Diameter of rivet holes in long. seams - Pitch of rivets - Thickness of straps - Percentage strength of long. joint:—Plate - Rivet - Diameter of tube holes in drum - Pitch of tube holes - Percentage strength of drum shell in way of tubes -
 Drum Heads or Ends:—Thickness - Range of tensile strength - Radius or how stayed - Size of manhole or handhole - Number, diameter, and thickness of tubes -
 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 - No. and description of safety valves - Area of each set of valves - Pressure to which they are adjusted - Is easing gear fitted -
 Spare Gear. Has the spare gear required by the Rules been supplied. Yes.

The foregoing is a correct description,

Manufacturer.

Dates of Survey During progress of work in shops - - - Is the approved plan of boiler forwarded herewith Yes
 while building During erection on board vessel - - - Total No. of visits
 Is this boiler a duplicate of a previous case. No. If so, state vessel's name and report No. -

GENERAL REMARKS (State quality of workmanship, opinions as to class, &c. These boilers have been constructed under Special Survey in accordance with the Rules, Approved Plans, Secretary's Letters & Admiralty Specification. The materials and workmanship are good and the Boilers have been efficiently installed on board the vessel. The Safety Valves have been adjusted to the stipulated working pressure and a satisfactory accumulation test carried out. In my opinion, the Boilers are eligible for notation 2 W.T.B - W.P. 250 lb. - 12.59

Survey Fee ... £ 87 : - : - When applied for 19
 Travelling Expenses (if any) £ - : - : - When received 19

Date GLASGOW 23 FEB 1960

Committee's Minute SEE ACCOMPANYING MACHINERY REPORT

Engineer Surveyor to Lloyd's Register of Shipping.

Lloyd's Register Foundation

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