

REPORT ON WATER TUBE BOILERS.

No. 4

Received at London Office.

Date of writing Report 5.3.58 19 When handed in at Local Office 18.3.58 19 Port of PARIS
 No. in Survey held at La Courneuve (Seine) Date, First Survey 3rd April, 57 Last Survey 30th Jan, 1958
 Reg. Book. "ESSO (LONDON)" NORWICH (Number of Visits 27) Tons Gross 227 Net 1958
 on the "ESSO (LONDON)" By whom built Ateliers & Chantiers de France Yard No. 227 When built 1958
 Built at La Courneuve (Seine) By whom made Soc. Française des Constructions Engine No. 12177 D&G When made 1958
 Boilers made at La Courneuve (Seine) By whom made Babcock & Wilcox Boiler No. 12177 D&G When made 1958
 HS for Register Book 20,000 sq. ft. (Total) Owners Babcock & Wilcox Port belonging to Marrel Frères

WATER TUBE BOILERS—MAIN, AUXILIARY, OR DONKEY.—Manufacturers of Steel Marrel Frères
 Date of Approval of plan 25.9.56 and 9.1.57 No. and Description or Type Two water tube boilers
 of Boilers "Integral furnace" type Working Pressure 68 kg/cm² Tested by Hydraulic Pressure to 105.5 kg/cm² Date of Test 3.12.57 & 17.12.57
 No. of Certificate Can each boiler be worked separately Total Heating Surface of Boilers 828M² Superheaters (per boiler) 99M²
 Half Economisers Is forced draught fitted Area of Fire Grate (coal) in each Boiler -
 No. and type of burners (oil) in each boiler - No. and description of safety valves on each boiler -
 each boiler. - Area of each set of valves per boiler - Pressure to which they are adjusted -
 Are they fitted with easing gear - In case of donkey boilers state whether steam from main boilers can enter the donkey boiler -
 Width and length 40mm & 123 (tube plate) Steam Drums: Number in each boiler one Inside diameter (nominal) 1219mm
 Thickness of plates 40mm & 123 (tube plate) Range of tensile strength 49/59 kg/mm² Are drum shell plates welded or flanged welded
 If fusion welded, state name of welding firm Babcock & Wilcox 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 32 x 51 Pitch of tube holes 48 x 83
 Percentage strength of shell in way of tubes (min) 33 Steam Drum Heads or Ends: Range of tensile strength 49/59 kg/mm²
 Thickness of plates 50mm Radius or how stayed 975mm Size of manhole or handhole 305 x 407 Water Drums: Number in each boiler one
 Inside diameter 758mm Thickness of plates 82mm Range of tensile strength 49/59 kg/mm² Are drum shell plates welded or flanged welded
 If fusion welded, state name of welding firm Babcock & Wilcox 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 32 x 51 Pitch of tube holes 48 x 112
 Percentage strength of drum shell in way of tubes (min) 33 Water Drum Heads or Ends: Range of tensile strength 49/59 kg/mm²
 Thickness of plates 40mm Radius or how stayed 610mm (inside) Size of manhole or handhole 305 x 407
 Headers or Sections: Number (per boiler) 3 Material SM Steel Thickness 32mm Tested by hydraulic pressure to 105.5 kg/cm²
 Tubes: Diameter 50.8mm Thickness 4.5mm Number - 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 - plate - rivet -
 Pitch of rivets - Thickness of straps - Percentage strength of long. joint - Thickness - Radius or how stayed -
 Crown or End Plates: Range of tensile strength - Thickness - Inside diameter 183mm
SUPERHEATER. Drums or Headers: Number in each boiler 2 Inside diameter 183mm
 Thickness 42mm Material "Chromesco 1" Range of tensile strength 48/58 kg/mm² Are drum shell plates welded or flanged seamless
 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 32mm Pitch of tube holes 46mm Percentage strength of header drum shell in way of tubes 30
 Headers or Sections: Number (per boiler) 3 Material SM Steel Thickness 40mm Tested by hydraulic pressure to 105.5 kg/cm²
 Tubes: Diameter 50.8mm Thickness 4.5mm Number - 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 - plate - rivet -
 Pitch of rivets - Thickness of straps - Percentage strength of long. joint - Thickness - Radius or how stayed -
 Crown or End Plates: Range of tensile strength - Thickness - Inside diameter 183mm
 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 - To be supplied by Boiler Erectors

The foregoing is a correct description.
 S^{te} Française des Constructions BABCOCK & WILCOX
 Pour le Directeur Général V. J. Green Manufacturer.

Dates of Survey 3/4/57, 16/4/57, 10 & 14/5/57, 19 & 26/6/57 Is the approved plan of boiler forwarded herewith No
 while building 29/8/57, 3, 6, 17 & 27/9/57, 5, 6, 15, 22 & 27/11/57, 3, 6, 9, 17, 19 & 31/12/57, 6, 14, 22 & 30/1/58. Total No. of visits 26

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. The steam and water drums, headers, water wall and fire tubes have been constructed in accordance with the approved plans, the society's Rules and the Secretary's letters. The quality of materials and workmanship is good. The above mentioned parts have been dispatched to Ateliers & Chantiers de France at Dunkirk for assembling and testing and subsequent installation in the ship.
 Survey Fee £ 300.000Fr When applied for 13/3/ 1958
 Travelling Expenses (if any) £ 35.000Fr When received 19
 E.L.Green for J.H. Beiger & Self.
 Engineer Surveyor to Lloyd's Register of Shipping.

FRIDAY 21 AUG 1958

Date See Rpt. 1
 Committee's Minute -

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