

REPORT ON WATER TUBE BOILERS.

No. 1750

Received at London Office

Date of writing Report 8th March 1952 When handed in at Local Office 19 Port of H A M B U R G
 No. in Survey held at H A M B U R G Date, First Survey 27.8.1951 Last Survey 18.2.1952
 Reg. Book Supplement 36347 on the " G R O N L A N D " (Number of Visits 11) Gross 11600 Tons
 Built at Hamburg By whom built Deutsche Werft A.G. Yard No. 635 When built 1952
 Engines made at Augsburg By whom made M.A.N. Engine No. 503000 When made 1952
 Boilers made at Hamburg By whom made Deutsche Werft A.G. Boiler No. 1952 When made 1952
 Nominal Horse Power 1952 Owners A/S Det Danske Franske Dampskipselskab Port belonging to Copenhagen

WATER TUBE BOILERS—MAIN, AUXILIARY, OR DONKEY.—Manufacturers of Steel Stahl & Röhrenwerke Reisholz A.G.
 Date of Approval of plan (London) 31.7.1951 No. and Description or Type of Boilers One, La Mont Type Working Pressure 170.7 lbs Tested by Hydraulic Pressure to 305.8 lbs Date of Test 20.11.1951
 No. of Certificate 16 Can each boiler be worked separately - Total Heating Surface of Boilers 150 sq. meters
 Is forced draught fitted - Area of Fire Grate (coal) in each Boiler none
 No. and type of burners (oil) in each boiler Exhaust gas heated No. and description of safety valves on each boiler One Single, Ordinary Spring Loaded Area of each set of valves per boiler per rule as fitted 8.04 sq. cm Pressure to which they are adjusted 171 lbs/sq.m 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 well clear Height of boiler 3535 mm
 Width and length 1764 mm Diameter Steam Drums:—Number in each boiler none Inside diameter - Thickness of plates - 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 shell in way of tubes - Steam Drum Heads or Ends:—Range of tensile strength - Thickness of plates - Radius or how stayed - Size of manhole or handhole - Water Drums:—Number in each boiler none Inside diameter - Thickness of plates - 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 - Water Drum Heads or Ends:—Range of tensile strength none Thickness of plates - Radius or how stayed - Size of manhole or handhole - Leaders or Sections:—Number 2 Material SM steel Thickness 8 mm Tested by hydraulic pressure to 21.5 mm
 Tubes:—Diameter (inside) 26 mm Thickness 3 mm Number 10 coils 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 none 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

DEUTSCHE WERFT
AKTIENGESELLSCHAFT

K. Thiemer i.R. Trunk.

The foregoing is a correct description,

Manufacturer.

Dates During progress of work in shops Aug.: 27, Oct.: 1, 16, Nov.: 28, Dec.: 4, 12 Is the approved plan of boiler forwarded herewith 12
 while During erection on board vessel Jan.: 4, 8, 12, 17, Feb.: 18 Total No. of visits 11

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.) This boiler has been constructed under Special Survey in conformity with the Society's Rules and Regulations, the approved plans and the Secretary's letters. The materials and workmanship are good. The boiler has been examined during construction, properly installed in the above vessel, examined under working conditions and found good.

Survey Fee ... £ SEE When applied for 19
 Travelling Expenses (if any) £ REPORT 46 When received 19

FRI. 16 MAY 1952

W. Engelhardt & R. Röhler
 Engineer Surveyors to Lloyd's Register of Shipping.

Date Surf. B. Moly. & pth.
 Committee's Minute

Lloyd's Register
 Foundation

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