

REPORT ON WATER TUBE BOILERS.

No. 967.

Received at London Office

20 JUN 1927

of writing Report 5th June 1927 When handed in at Local Office 1927 Port of Bremen

o. in Survey held at Bremen Date, First Survey 7th Sept 1926 Last Survey 3rd June 1927

r. Bk. on the Steel S.S. 'MITTELMEER' (Number of Visits 10) Tons { Gross 6370
Net 3658

ter Built at Bremen By whom built Deutsche Schiff- u. Maschinenbau A.G. Weser A.G. Weser When built 1926/27

ines made at Bremen By whom made - When made 1926/27

ers made at - By whom made - When made 1926/27

istered Horse Power ✓ Owners Bremer Öl-Transport G.m.b.H. Port belonging to Bremen

WATER TUBE BOILERS — MAIN, AUXILIARY, OR DONKEY. — Manufacturers of Steel Mannmann, Bremen, Weser, ✓
De. Schiff- u. Maschinenbau A.G. ✓

atter for Record 5 Date of Approval of plan 21st May 1926 Number and Description or Type 2. Babcock, Wilcox ✓

Boilers 2. Babcock, Wilcox ✓ Working Pressure 14 Kgr/cm² Tested by Hydraulic Pressure to 24.5 Kgr/cm² Date of Test 25/3/27

of Certificate ✓ Can each boiler be worked separately yes ✓ Total Heating Surface of Boilers 100 sq. meters

forced draught fitted ✓ Area of fire grate (coal) in each Boiler 2 x 5026 mm² ✓ Total grate area of boilers in vessel including in and Auxiliary ✓ No. and type of burners (oil) in each boiler 2. Vulkan-Type ✓ No. and description of safety valves on boiler 2, spring loaded ✓ Area of each valve 2 x 5026 mm² ✓ Pressure to which they are adjusted 14 Kgr/cm² ✓

they fitted with easing gear yes ✓ In case of donkey boilers state whether steam from main boilers can enter the donkey boiler no ✓

allest distance between boilers or uptakes and bunkers or woodwork 560 mm. ✓ Height of Boiler 4280 mm. ✓ Width and Length 255 x 4740 mm. ✓

am Drums:—Number in each boiler 1 ✓ Inside diameter 1800 mm. ✓ Material of plates J. M. steel ✓ Thickness 21 mm. ✓

ange of Tensile Strength 44-51 Kgr/mm² ✓ Are drum shell plates welded or flanged no ✓ Description of riveting:—
seams double ✓ long. seams double ✓ Diameter of rivet holes in long. seams 23 mm. ✓ Pitch of Rivets 81 mm. ✓

p of plate or width of butt straps 230 mm. ✓ Thickness of straps 18 mm. ✓ Percentage strength of long. joint:—Plate 71.6% ✓ Rivet 75.1% ✓

iameter of tube holes in drum 95 mm. ✓ Pitch of tube holes 160 x 195 mm. ✓ Percentage strength of shell in way of tubes 51.4% ✓

Drum has a flat side state method of staying ✓ Depth and thickness of girders at centre (fitted) ✓ Distance apart ✓ Number and pitch of stays in each ✓ Working pressure rules 17.1 Kgr/cm² ✓ Steam Drum Heads or Ends:—Material J. M. steel ✓ Thickness 20 x 23 mm. ✓ Radius on how stayed 1170 mm. ✓

ie of Manhole or Handhole 300 x 400 mm. ✓ Water Drums:—Number in each boiler 2 ✓ Inside diameter 170 mm. ✓

aterial of plates J. M. steel ✓ Thickness 19 x 22 mm. ✓ Range of tensile strength 41-48 Kgr/mm² ✓ Are drum shell plates welded or flanged yes ✓ Description of riveting:—Cir. seams single ✓ long. seams ✓ Diameter of Rivet Holes in long. seams 26 mm. ✓ Pitch of rivets 70 mm. ✓ Lap of plates or width of butt straps ✓ Thickness of straps ✓

centage strength of long. joint:—Plate ✓ Rivet ✓ Diameter of tube holes in drum check 98 x 95 mm. ✓ Pitch of tube holes 160 x 140 mm. ✓

centage strength of drum shell in way of tubes 51.4% ✓ Water Drum Heads or Ends:—Material ✓ Thickness ✓

adius on how stayed ✓ Size of manhole or handhole ✓ Headers or Sections:—Number ✓

aterial ✓ Thickness ✓ Tested by Hydraulic Pressure to ✓ Material of Stays ✓

ea at smallest part ✓ Area supported by each stay ✓ Working Pressure by Rules ✓ Tubes:—Diameter ✓

ickness ✓ Number ✓ Steam Dome or Collector:—Description of Joint to Shell ✓

centage strength of Joint ✓ Diameter ✓ Thickness of shell plates ✓ Material ✓

escription of longitudinal joint ✓ Diameter of Rivet Holes ✓ Pitch of Rivets ✓ Working Pressure of shell Rules ✓

CROWN OR END PLATES:—Material ✓ Thickness ✓ How stayed ✓

SUPERHEATER. Type ✓ Date of Approval of Plan ✓ Tested by Hydraulic Pressure to ✓

ate of Test ✓ Is a safety valve fitted to each section of the superheater which can be shut off from the Boiler ✓

iameter of Safety Valve ✓ Pressure to which each is adjusted ✓ Is easing gear fitted ✓

a drain cock or valve fitted at lowest point of superheater ✓ Number, diameter, and thickness of tubes ✓

are Gear. Tubes ✓ Gaskets or joints:—Manhole ✓ Handhole ✓ Handhole plates ✓

The foregoing is a correct description,
Deutsche Schiff- und Maschinenbau Aktiengesellschaft Manufacturer.
Werk: Act. Ges. Weser

Dates } During progress of 1926:- 7/9, 11/10, 22/11, 1927:- 5/2, 2/3, 25/3. Is the approved plan of boiler forwarded herewith 21/5/26.
Survey } work in shops - - -
while } During erection on 1927:- 16/5, 27/5, 2/6, 3/6. Total No. of visits 10
building } board vessel - - -

GENERAL REMARKS (State quality of workmanship, opinions as to class, &c.) These boilers have been constructed for special survey in accordance with the approved plan and instructions and in conformity with Rules. The materials used in the construction and the workmanship are good. They are eligible in my opinion to be classed in the Register Book with record of 199 lb.

Thickness of adjusting washers of safety valve Port Boiler: port starboard 25.4 mm. 25.4 mm.
26 " 23 "

Survey Fee ... £ 8 : 8 : When applied for, 5th June 1927
Travelling Expenses (if any) £ : : } When received, 30/6/27

G. H. C. HAMM
Engineer Surveyor to Lloyd's Register of Shipping.

Committee's Minute
Assigned

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