

REPORT ON WATER TUBE BOILERS.

No. 16396

Received at London Office

15 JUN 1925

Date of writing Report 30th May 1925 When handed in at Local Office

19

Port of HAMBURG

No. in Survey held at Miel Date, First Survey 25th May 1924. Last Survey 3rd May 1925.
 Reg. Bk. on the Steel Twin Sc. Motor V. 'PERSEPHONE' Number of Visits 14.
 Master Built at Miel By whom built FRIED. KRUPP. GERMANIAWERFT When built 1925
 Engines made at Miel By whom made FRIED. KRUPP. GERMANIAWERFT. A.G. When made 1925
 Boilers made at Miel By whom made FRIED. KRUPP. GERMANIAWERFT. A.G. When made 1925
 Registered Horse Power 908 Owners BALTISCH-AMERIK. PETR. TRAF. G.m.b.H. Port belonging to DANZIG

WATER TUBE BOILERS—MAIN, AUXILIARY, OR DONKEY.—Manufacturers of Steel Krupp. Germania Werft. Kiel
 (Letter for Record S.) Date of Approval of plan 19. 7. 23. Number and Description or Type of Boilers 2. Water tubes Working Pressure 14 kg/cm² Tested by Hydraulic Pressure to 28 kg/cm² Date of Test 2. 12. 24.
 No. of Certificate 358-359 Can each boiler be worked separately yes Total Heating Surface of Boilers 240 sq. m.
 Is forced draught fitted yes Area of fire grate (coal) in each Boiler oil fired Total grate area of boilers in vessel including Main and Auxiliary oil fired No. and type of burners (oil) in each boiler 2. Dahl. burners No. and description of safety valves on each boiler 2. spring loaded Area of each valve 70 cm² Pressure to which they are adjusted 14 kg/cm² (200 lb.)
 Are they fitted with easing gear yes In case of donkey boilers state whether steam from main boilers can enter the donkey boiler no. non return valve
 Smallest distance between boilers or uptakes and bunkers on woodwork 1000 mm Height of Boiler 4300 mm Width and Length 2900-4600 mm
Steam Drums:—Number in each boiler 1 Inside diameter 1300 mm Material of plates Steel Thickness 21 mm
 Range of Tensile Strength 44-50 kg/cm² Are drum shell plates welded or flanged flanged Description of riveting:—
 Cir. seams lp. double riv. long. seams lp. double Diameter of rivet holes in long. seams 28 mm Pitch of Rivets 93 mm
 Lap of plate or width of butt straps 268 mm Thickness of straps 18 mm Percentage strength of long. joint:—Plate 70% Rivet 96.7%
 Diameter of tube holes in drum 95 mm Pitch of tube holes 185 mm Percentage strength of shell in way of tubes 48.6%
 If Drum has a flat side state method of staying yes Depth and thickness of girders at centre (if fitted) yes Distance apart yes Number and pitch of stays in each yes Working pressure by rules 14.25 kg/cm²
Steam Drum Heads or Ends:—Material Steel Thickness 25 & 28 mm Radius or how stayed 1300 mm
 Size of Manhole or Handhole 300 x 400 mm **Water Drums:**—Number in each boiler 1 Inside Diameter 1300 mm
 Material of plates Steel Thickness 22 mm Range of tensile strength 44-50 kg/cm² Are drum shell plates welded or flanged flanged Description of riveting:—Cir. seams lp. double long. seams lp. double Diameter of Rivet Holes in long. seams 28 mm Pitch of rivets 93 mm Lap of plates or width of butt straps 268 mm Thickness of straps 18 mm Percentage strength of long. joint:—Plate 70% Rivet 96.7% Diameter of tube holes in drum 95 mm Pitch of tube holes 185 mm Percentage strength of drum shell in way of tubes 48.6%
Water Drum Heads or Ends:—Material Steel Thickness 22 mm Radius or how stayed 1300 mm
 Size of manhole or handhole 300 x 400 mm **Headers or Sections:**—Number 2 Material Steel Thickness 22 mm Tested by Hydraulic Pressure to 28 kg/cm² Material of Stays Steel Tubes:—Diameter 95 mm
 Thickness 3.5 & 4.5 mm Number 161 **Steam Dome or Collector:**—Description of Joint to Shell yes
 Percentage strength of Joint yes Diameter yes Thickness of shell plates yes Material yes
 Description of longitudinal joint yes Diameter of Rivet Holes yes Pitch of Rivets yes Working Pressure of shell by Rules yes
Crown or End Plates:—Material Steel Thickness 22 mm How stayed yes

SUPERHEATER. Type yes Date of Approval of Plan 19. 7. 23. Tested by Hydraulic Pressure to 28 kg/cm²
 Date of Test 2. 12. 24. Is a safety valve fitted to each section of the superheater which can be shut off from the Boiler yes
 Diameter of Safety Valve yes Pressure to which each is adjusted yes Is easing gear fitted yes
 Is a drain cock or valve fitted at lowest point of superheater yes Number, diameter, and thickness of tubes yes
 Spare Gear. Tubes yes Gaskets or joints:—Manhole yes Handhole yes Handhole plates yes

THICKNESS OF ADJ. WASHERS. **MARK ON BOILERS.** The foregoing is a correct description,
 Port. Boiler. Stb 10 mm Port H. 11 mm No 258 & 359
Stb 11 mm 12 mm LLOYD'S TEST. - 400 LBS.
Stb 12 mm 13 mm W. P. 200 LBS. F.W. 2. 12. 24. Manufacturer. FRIED. KRUPP. GERMANIAWERFT. A.G. Aktiengesellschaft

Dates of Survey: During progress of work in shops 20/5-24/6-9/7-14/8-3/9-4/11-25/11-2/12/24. Is the approved plan of boiler forwarded herewith yes
 while building 27/2-13/3-6/4-17/4-27/4-3/5/25 Total No. of visits 14

GENERAL REMARKS (State quality of workmanship, opinions as to class, &c.) Material + workmanship of these boilers are of good quality. The materials used in the construction are made at works recognised by the Committee as tested by the Surveyor for the Society in accordance with the Rules. These boilers having been made under special survey in conformity with the approved plan, the Surveyor's letter and otherwise in accordance with the requirements of the Rules is eligible in my opinion for record: 'N. Sup. B. 25'

Survey Fee £ 8. 8 When applied for, 5th June 1925
 Travelling Expenses (if any) £ When received, 25th June 1925

Committee's Minute

FRI. 19 JUN 1925

FRI. 14 AUG 1925

Assigned

See other report

FRI. 4 SEP 1925

FRI. 20 NOV 1925

FRI. 27 NOV 1925

TUES. 3 JUN 1926

Engineer Surveyor to Lloyd's Register of Shipping



Lloyd's Register
 Foundation
 W 207-0090