

REPORT ON WATER TUBE BOILERS.

No. 17012

Received at London Office

15 SEP 1926

Date of writing Report 6th SEPT. 1926 When handed in at Local Office

19

Port of HAMBURG

No. in Survey held at TIEL Date, First Survey 9th February Last Survey 20th August 1926
 Reg. Bk. on the Steer. Twin Sc. M. V. "CALLIOPE" Number of Visits 16. Tons { Gross 8744
 Net 5026
 Master Built at TIEL By whom built HOWALDTSWERKE When built 1926
 Engines made at TIEL By whom made HOWALDTSWERKE When made 1926
 D-Boilers made at TIEL By whom made HOWALDTSWERKE When made 1926
 Registered Horse Power 776. Owners SALT FRIERIE PETROLIUM G. m. b. H. Port belonging to DANZIG.

WATER TUBE BOILERS—MAIN, AUXILIARY, OR DONKEY.—Manufacturers of Steel Phoenix-Hoerde
 (Letter for Record S.) Date of Approval of plan 10. 10. 24. Number and Description or Type of Boilers 2 Water Tube Donkey Boilers Working Pressure 14 kg/200 lb Tested by Hydraulic Pressure to 28 kg/400 lb Date of Test 20.5.26.
 No. of Certificate 429-430. 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 No. and type of burners (oil) in each boiler 2 Bahr burner No. and description of safety valves on each boiler 2 Spring loader Area of each valve 70 cm² Pressure to which they are adjusted 14 kg/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 return valve.
 Smallest distance between boilers or uptakes and bunkers on woodwork 1900 mm Height of Boiler 4300 mm Width and Length 1900-4600 mm
Steam Drums:—Number in each boiler 1 Inside diameter 1300 mm Material of plates Steel Thickness 21 mm
 Range of Tensile Strength 44-51 kg/cm² Are drum shell plates welded or flanged flanged Description of riveting:—
 Cir. seams lap double long. seams 1.3 double riv. Diameter of rivet holes in long. seams 26 mm Pitch of Rivets 93 mm
 Lap of plate or width of butt straps 264 mm Thickness of straps inner: 13 mm outer: 16 mm Percentage strength of long. joint:—Plate 72 % Rivet 83.5 %
 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 Depth and thickness of girders at centre (if fitted) Distance apart Number and pitch of stays in each Working pressure by rules 14.25 kg/cm² **Steam Drum Heads or Ends:**—Material Steel Thickness 23 mm - 25 mm Radius or how stayed 1300 mm
 Size of Manhole or Handhole 300 x 400 mm **Water Drums:**—Number in each boiler Inside Diameter
 Material of plates Thickness Range of tensile strength Are drum shell plates welded or flanged Description of riveting:—Cir. seams long. seams Diameter of Rivet Holes in long. seams Pitch of rivets Lap of plates or width of butt straps 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:**—Material Thickness
 Radius or how stayed Size of manhole or handhole **Headers or Sections:**—Number 2
 Material Steel Thickness 19 mm Tested by Hydraulic Pressure to 28 kg/400 lb Material of Stays Steel
 Area at smallest part 29 mm² Area supported by each stay 256 cm² Working Pressure by Rules 26.5 kg/cm² **Tubes:**—Diameter 95 mm
 Thickness 5.5-4.5 mm Number 139 **Steam Dome or Collector:**—Description of Joint to Shell
 Percentage strength of Joint Diameter Thickness of shell plates Material
 Description of longitudinal joint Diameter of Rivet Holes Pitch of Rivets Working Pressure of shell by Rules Crown or End Plates:—Material Thickness How stayed

UPERHEATER. Type Date of Approval of Plan 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
 Diameter of Safety Valve Pressure to which each is adjusted Is easing gear fitted
 Is a drain cock or valve fitted at lowest point of superheater Number, diameter, and thickness of tubes
 Spare Gear. Tubes Gaskets or joints:—Manhole Handhole Handhole plates

The foregoing is a correct description,

HOWALDTSWERKE

Manufacturer.

Dates of Survey while building { During progress of 2/2-2/3-9/3-16/3-23/3-7/4-27/4-4/5-14/5-19/5-20/5/26 Is the approved plan of boiler forwarded herewith 4/5/26. 16532.
 During erection on 28/7-3/8-10/8-20/8-28/8/26 Total No. of visits 16.

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 recognized by the Committee and tested in accordance with the requirements of the Rules. These W.T. boilers having been built under Special Survey in conformity with the approved plan, the Secretary's letter and other rules in accordance with the requirements of the Rules are eligible in my opinion for record N.D.B.(W.T.)-26.

Survey Fee £ 8. : 8. : When applied for, 25.8.26 19
 Travelling Expenses (if any) £ : : When received, 6/9/26.

Engineer Surveyor to Lloyd's Register of Shipping.

Committee's Minute

FRI. 17 SEP 1926

Assigned

See A.B. rpt. attached



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Foundation