

REPORT ON WATER TUBE BOILERS.

No. 16908

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5c. *Rah*
Writing Report *30th June* 1926 When handed in at Local Office 19

Port of **HAMBURG**

Survey held at **MIEL** Date, First Survey *1st Sept. 1925* Last Survey *22nd June 1926*
 on the **Steel Twin S.M.V. "URANIA"** Number of Visits *16* Tons } Gross *8744*
 Net *5026*
 Built at **MIEL** By whom built **HOWALDTSWERKE** When built *1926*
 Made at **LUDWIGSHAFEN** By whom made **Gedr. SULZER** When made *1926*
 Made at **MIEL** By whom made **HOWALDTSWERKE** When made *1926*
 Horse Power **226** Owners **BALTISCH-FINER-PETROL-IMP. G.M.B.H.** Port belonging to **DANZIG**

WATER TUBE BOILERS—MAIN, AUXILIARY, OR DONKEY.—Manufacturers of Steel **Phoenix-Hoerde.**

Date of Approval of plan *10. 10. 24.* Number and Description or Type
 Boilers *2 Water Tube Donkey Boilers* Working Pressure *4 kg (200 lb)* Tested by Hydraulic Pressure to *400 lb* Date of Test *9. 3. 26*
 Certificate *420-421* Can each boiler be worked separately *Yes* Total Heating Surface of Boilers *240 sq. m.*
 Draught fitted *Yes* Area of fire grate (coal) in each Boiler *oil fired* Total grate area of boilers in vessel including
 and Auxiliary No. and type of burners (oil) in each boiler *2 Dahl burner* No. and description of safety valves on
 boiler *2 Spring loaded* Area of each valve *70 sq. m.* Pressure to which they are adjusted *14 kg (200 lb)*
 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*
 Distance between boilers or uptakes and bunkers *1900 mm* Height of Boiler *4300 mm* Width and Length *2900-4600 mm*
 Drums:—Number in each boiler Inside diameter *1300 mm* Material of plates *Steel* Thickness *21 mm*
 Tensile Strength *44.5 kg/cm²* Are drum shell plates welded or flanged *flanged* Description of riveting:—
 Seams *double* long. seams *D.B. double* Diameter of rivet holes in long. seams *26 mm* Pitch of Rivets *92 mm*
 Plate or width of butt straps *264 mm* Thickness of straps *16 mm* Percentage strength of long. joint:—Plate *72%* Rivet *82.5%*
 Diameter of tube holes in drum *95 mm* Pitch of tube holes *185 mm* Percentage strength of shell in way of tubes *48.6%*
 Drum has a flat side state method of staying
 Distance apart Number and pitch of stays in each Working pressure
14.25 kg/cm² Steam Drum Heads or Ends:—Material *Steel* Thickness *22, 25 mm* Radius or how stayed *1300 mm*
 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
 Riveted Description of riveting:—Cir. seams long. seams Diameter of Rivet Holes in
 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
 Size of manhole or handhole Headers or Sections:—Number *2*
 Material *Steel* Thickness *late plate: 24 mm* Tested by Hydraulic Pressure to *28 kg (400 lb)* Material of Stays *Steel*
 at smallest part *20 mm* Area supported by each stay *256 sq. cm* Working Pressure by Rules *26.3 kg/cm²* Tubes:—Diameter *95 mm*
 Pressure *5.5 kg/cm² - 4.5 kg/cm²* 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
 plates Crown or End Plates:—Material Thickness How stayed

REHEATER. Type Date of Approval of Plan Tested by Hydraulic Pressure to
 Is a safety valve fitted to each section of the superheater which can be shut off from the Boiler
 Pressure to which each is adjusted Is easing gear fitted
 Train cock or valve fitted at lowest point of superheater Number, diameter, and thickness of tubes
 Easing Gear. Tubes Gaskets or joints:—Manhole Handhole Handhole plates

The foregoing is a correct description,
HOWALDTSWERKE Manufacturer.
Friedrich Hill

During progress of work in shops *11/9-2/10-9/10-3/11-17/11-11/12-23/12-29/12/25-22/1-2/3-9/3/26* Is the approved plan of boiler forwarded herewith *Yes*
 During erection on board vessel *4/5-19/5-8/6-15/6-22/6/26* Total No. of visits *16*

GENERAL REMARKS (State quality of workmanship, opinions as to class, &c.) *Material & workmanship of these W.T. boilers*
of good quality. The materials used in the construction are made at works recognized by the Committee
inspected in accordance with the requirements of the Rules. These boilers having been built under
special Survey in conformity with the approved plan the Secretary's letters and otherwise in accor-
dance 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, *1. 7. 1926*
 Travelling Expenses (if any) £ *- - -* When received, *19. 7. 1926*

Friedrich Hill
 Engineer Surveyor to Lloyd's Register of Shipping.

Committee's Minute
See Rpt. attached

