

REPORT ON WATER TUBE BOILERS.

No. 247

With Danzig First Entry Rpt. No. 154

Received at London Office MAY 13 1938

Date of writing Report 7th May 1938 When handed in at Local Office 9th May 1938 Port of Düsseldorf

No. in Survey held at Oberhausen Date, First Survey 12th July 1937 Last Survey 3rd May 1938
 Reg. Bk. for the Drag Suction Hopper Dredger "Fu Shing" (Yard No. 1400) (Number of Visits 17) Tons { Gross
 Net
 Master Built at Danzig By whom built F. Schichau G.m.b.H. When built 1938
 Engines made at Elbing By whom made F. Schichau G.m.b.H. When made 1938
 Boilers made at Oberhausen By whom made Deutscher Babcock & Wilcox Dampfkessel-Werke When made 1937/38
 Registered Horse Power Owners Yangpoo Conservancy Board Port belonging to Shanghai

WATER TUBE BOILERS—MAIN, AUXILIARY, OR DONKEY.—Manufacturers of Steel plates: *Deutsche Babcock & Wilcox Dampfkessel-Werke; Kammann & Wöhler, Harkes, Gussstahl-Fabrik, etc.*
 (Letter for Record) Date of Approval of plan 25/5, 25/6, 11/8, 10/12/37, 8/3/38 Number and Description or Type
 of Boilers 4 water tube boilers Working Pressure 24.5 atm. Tested by Hydraulic Pressure to 42 atm. Date of Test 18.10.37
 No. of Certificate of welded drums 21976 Can each boiler be worked separately Total Heating Surface of Boilers 7390.57 sq. ft. (4109 m²)
 Is forced draught fitted Area of fire grate (coal) in each Boiler Total grate area of boilers in vessel including
 Main and Auxiliary No. and type of burners (oil) in each boiler 5 oil stokers No. and description of safety valves on
 each boiler 1 double lift spring safety valve Area of each valve 2 x 5541.77 mm² Pressure to which they are adjusted
 Are they fitted with easing gear In case of donkey boilers state whether steam from main boilers can enter the donkey boiler
 Smallest distance between boilers or uptakes and bunkers or woodwork Height of Boiler Width and Length
Steam Drums:—Number in each boiler one Inside diameter 1052 mm Material of plates S. M. steel Thickness 24 mm
 Range of Tensile Strength 44 - 50.3 kg/mm² Are drum shell plates welded on flange electric fusion also circumferential
 Cir. seams long. seams Diameter of rivet holes in long. seams Pitch of Rivets
 Lap of plate or width of butt straps Thickness of straps Percentage strength of long. joint:—Plate Rivet
 Diameter of tube holes in drum 102.7 mm Pitch of tube holes 178 mm Percentage strength of shell in way of tubes
 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 **Steam Drum Heads or Ends:**—Material S. M. steel Thickness 23 mm Radius 880 mm
 Size of Manhole 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 4 x 48
 Material S. M. steel Thickness 14 mm Tested by Hydraulic Pressure to Material of Stays
 Area at smallest part Area supported by each stay Working Pressure by Rules **Tubes:**—Diameter 44.5 102 mm
 Thickness 3.5, 4.0, 5.25, 6.5 mm Number 4 x 824 **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

SUPERHEATER. Type Date of Approval of Plan 23.6.37 Single coils Tested by Hydraulic Pressure to 80 atm.
 Date of Test 19.11.37 Is a safety valve fitted to each section of the superheater which can be shut off from the Boiler yes
 Diameter of Safety Valve 84 mm 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 coils: 4 x 40, 38 mm ϕ , 375 mm thickness
Spare Gear. Tubes Gaskets or joints:—Manhole Handhole Handhole plates

DEUTSCHE BABCOCK & WILCOX DAMPFKESSEL-WERKE
 ACTIEN-GESELLSCHAFT
 Die Betriebsleitung

The foregoing is a correct description,

Manufacturer.

Dates of Survey { During progress of work in shops - - } Is the approved plan of boiler forwarded herewith
 while { During erection on board vessel - - - } Total No. of visits

GENERAL REMARKS (State quality of workmanship, opinions as to class, &c.)

The electric fusion welded boiler drums have been surveyed during manufacturing and have been made in accordance with the "Requirements for welded Pressure Vessels" (Class I) and the approved plan No 64283 (Date of approval 25th May 1937)

Survey Fee ... RM 1060.- When applied for, 6. 5. 1938 Diminution
 Travelling Expenses (if any) \$ " : 110.- When received, 23. 6. 1938 2 1/2 11321.

15 of the fee credited to Danzig account

Engineer Surveyor to Lloyd's Register of Shipping.

Committee's Minute

Assigned

TUE 28 FEB 1939

See Duz. 76. 154

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