

REPORT ON WATER TUBE BOILERS.

No.

18466

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Port of Rotterdam

No. in Survey held at *Flushing* Date, First Survey *13-12-27* Last Survey *30-11-1928*
 Reg. Bk. on the *Steel Screw Steamer "TJIBADAK"* (Number of Visits *18*) Tons { Gross *1803*
 Net *4800*
 Master Built at *Kumpen & Yssel* By whom built *C. & G. Giesse & Zonen* When built *1929*
 Engines made at *Flushing* By whom made *Hon. Mr. De Schelde* When made *1929*
 Boilers made at *Flushing* By whom made *Hon. Mr. De Schelde* When made *1929*
 Registered Horse Power *4000* Owners *Java China Japan Line* Port belonging to *Batavia*

WATER TUBE BOILERS—MAIN, ~~AUXILIARY~~, OR ~~DONKEY~~—Manufacturers of Steel *D. Colasche & Sons*Letter for Record *S* Date of Approval of plan *25-10-27* Number and Description or Typeof Boilers *4 Babcock & Wilcox Watertube boilers* Working Pressure *256 lb* Tested by Hydraulic Pressure to *434 lb* Date of Test *30-11-28*No. of Certificate *898* Can each boiler be worked separately *yes* Total Heating Surface of Boilers *11744 sq ft*Is forced draught fitted *yes* Area of fire grate (coal) in each Boiler *Oil* Total grate area of boilers in vessel includingMain and Auxiliary *yes* No. and type of burners (oil) in each boiler *4 Halsund* No. and description of safety valves oneach boiler *2 Spring loaded* Area of each valve *3"* Pressure to which they are adjusted *256 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 donkey boiler*Smallest distance between boilers on uptakes and bunkers or woodwork *21"* Height of Boiler *10' 4"* Width and Length *14' 0" 15' 5"*Steam Drums:—Number in each boiler *One* Inside diameter *3' 6"* Material of plates *S. M. Steel* Thickness *7/8" & 1 1/8"*Range of Tensile Strength *28-32 Tons* Are drum shell plates welded or flanged *No* Description of riveting:—Cir. seams *lap 2 x riv* long. seams *Double butt 1 x riv* Diameter of rivet holes in long. seams *7/8" (59/64)* Pitch of Rivets *3.76"*Lap of plate or width of butt straps *11 7/8"* Thickness of straps *5/8"* Percentage strength of long. joint:—Plate *75.5%* Rivet *87.7%*Diameter of tube holes in drum *4 3/64" 4 1/64"* Pitch of tube holes *7"* Percentage strength of shell in way of tubes *72.5% to 78% plate*If Drum has a flat side state method of staying *No flat side* 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 *1 1/16"* Radius or how stayed *3' 0"*Size of Manhole or Handhole in shell *15" x 20 3/4"* Water Drums:—Number in each boiler *One* Inside diameter *6' 6"*Material of plates *S. M. Steel* Thickness *3/4"* Range of tensile strength *26-30 Tons* Are drum shell plates weldedor flanged *Made from solid drawn tubes* 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 *4 3/64" 4 1/64"* Pitch of tube holes *7"*Percentage strength of drum shell in way of tubes *42%* Water Drum Heads or Ends:—Material *S. M. Steel* Thickness *3/4"*Radius or how stayed *Flat* Size of manhole or handhole *None* Headers or Sections:—Number *80 pairs*Material *S. M. Steel* Thickness *7/16"* Tested by Hydraulic Pressure to *650 lb* Material of StaysArea at smallest part Area supported by each stay Working Pressure by Rules *324 lb* Tubes:—Diameter *1 1/16" & 4"*Thickness *8.459 5.459 9.459 2.3459* Number *144 9459 20 2* 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 *Babcock & Wilcox* Date of Approval of Plan *25-10-27* Tested by Hydraulic Pressure to *434 lb*Date of Test *1-11-28 25-10-28* Is a safety valve fitted to each section of the superheater which can be shut off from the Boiler *yes*Diameter of Safety Valve *2"* Pressure to which each is adjusted *260 lb* Is easing gear fitted *yes*Is a drain cock or valve fitted at lowest point of superheater *yes* Number, diameter, and thickness of tubes *352 @ 9.459*Spare Gear. Tubes *a full set of* Gaskets or joints:—Manhole *a full set* Handhole *a full set* Handhole plates *25%*The foregoing is a correct description,
N. V. KON. MY. "DE SCHELDE"

Manufacturer.

Dates of Survey { During progress of *1927 23 1928 11 6 14 23 28 12 10 26 16 24 6* Is the approved plan of boiler forwarded herewith *Retained*
 while { work in shops -- }
 building { During erection on *On machinery report* Total No. of visits *18*
 board vessel -- }

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

These boilers have been made in accordance with the Society's Rules, approved plans and Secretary's letters, material tested as required and workmanship good.

Survey Fee ... *On Machinery* When applied for, 19Travelling Expenses (if any) £ *report* When received, 19

Committee's Minute FRI. 14 JUN 1929

Assigned

Engineer-Surveyor to Lloyd's Register of Shipping.



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Foundation

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