

# REPORT ON WATER TUBE BOILERS. No. 50389

Received at London Office

Date of writing Report 6-10-1960 When handed in at Local Office 19 Port of Rotterdam

No. in Survey held at Alblasserdam/Tjsselmonde Date, First Survey 18-5-60 Last Survey 26-9-1960

Reg. Book. on the m.s. "OUTRAL CO." (Number of Visits) Tons (Gross) (Net)

Built at Alblasserdam By whom built Messrs. Venolme United shipyard Yard No. 633 When built 9-1960

Engines made at Hengelo By whom made Messrs. Gebr. Stork N.V. Engine No. 7530 When made 1960

Boilers made at Amsterdam By whom made Messrs. Thermodyne Boiler No. 590/591 When made 4-1960

HS for Register Book Owners Port belonging to Buenos Aires

## WATER TUBE BOILERS—MAIN, AUXILIARY, OR DONKEY.—Manufacturers of Steel

Date of Approval of plan No. and Description or Type of Boilers

Working Pressure Tested by Hydraulic Pressure to Date of Test

No. of Certificate Can each boiler be worked separately yes Total Heating Surface of Boilers Superheaters

Half Economisers Is forced draught fitted Area of Fire Grate (coal) in each Boiler

No. and type of burners (oil) in each boiler No. and description of safety valves on each boiler

2 springloaded Area of each set of valves per boiler per rule as fitted 2x80 mm. bore Pressure to which they are adjusted 80 lbs/sq. in.

Are they fitted with easing gear yes 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 no bunkers or woodwork near Height of boiler

Width and length Steam Drums:—Number in each boiler Inside diameter

Thickness of plates Range of tensile strength Are drum shell plates welded or flanged

If fusion welded, state name of welding firm Have all the requirements of the Rules for Class I vessels been complied with

Description of riveting:—Circ. seams long seams

Diameter of rivet holes in long. seams Pitch of rivets Thickness of straps Percentage strength of long. joint:—Plate Rivet

Diameter of tube holes in drum Pitch of tube holes

Percentage strength of shell in way of tubes Steam Drum Heads or Ends:—Range of tensile strength

Thickness of plates Radius or how stayed Size of manhole or handhole Water Drums:—Number in each boiler

Inside diameter Thickness of plates Range of tensile strength Are drum shell plates welded or flanged

If fusion welded, state name of welding firm Have all the requirements of the Rules for Class I vessels been complied with

Description of riveting:—Circ. seams long seams

Diameter of rivet holes in long. seams Pitch of rivets 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:—Range of tensile strength

Thickness of plates Radius or how stayed Size of manhole or handhole

Headers or Sections:—Number Material Thickness Tested by hydraulic pressure to

Tubes:—Diameter Thickness Number Steam Dome or Collector:—Description of joint to shell

Inside diameter Thickness of shell plates Range of tensile strength

Description of longitudinal joint If fusion welded, state name of welding firm

Have all the requirements for the Rules for Class I vessels been complied with Diameter of rivet holes

Pitch of rivets Thickness of straps Percentage strength of long. joint plate rivet

Crown or End Plates:—Range of tensile strength Thickness Radius or how stayed

SUPERHEATER, Drums or Headers:—Number in each boiler Inside diameter

Thickness Material Range of tensile strength Are drum shell plates welded or flanged

If fusion welded, state name of welding firm Have all the requirements of the Rules for Class I vessels been complied with

Description of riveting:—Circ. seams long seams

Diameter of rivet holes in long. seams Pitch of rivets 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

Drum Heads or Ends:—Thickness Range of tensile strength

Radius or how stayed Size of manhole or handhole Number, diameter, and thickness of tubes

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

No. and description of safety valves Area of each set of valves

Pressure to which they are adjusted Is easing gear fitted

Spare Gear. Has the spare gear required by the Rules been supplied yes

The foregoing is a correct description,

Manufacturer.

Dates of Survey During progress of work in shops - - - 14/9, 26/9/60 Is the approved plan of boiler forwarded herewith  
while building During erection on board vessel - - - 18/3, 22/3, 6/5, 21/6, 13/7, 18/7, 10/8, 30/8, 7/9, / Total No. of visits 11

Is this boiler a duplicate of a previous case If so, state vessel's name and report No.

GENERAL REMARKS (State quality of workmanship, opinions as to class, &c. The boilers have been fitted on board under Special Survey in accordance with the Society's Rules, approved plans and Secretarial letters. The workmanship found good throughout. The safety valves have been adjusted under steam pressure 180 lbs/sq. in. accumulation test carried out and all satisfactory. Height of adjusting washers Port Boiler P.21, 9 mm. S.23, 3 mm. starb. boiler P 19, 3 mm. S.21, 1 mm.

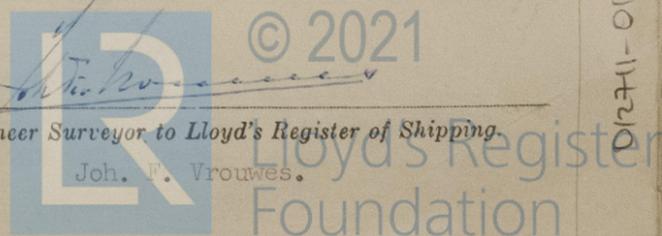
The boilers merit in my opinion the approval of the Committee.  
Survey Fee ... £ : When applied for 19  
Travelling Expenses (if any) £ : please see A'dam Rpt. 23442 When received 19

Date FRIDAY - 2 DEC 1960

Committee's Minute See Rpt. 1

Engineer Surveyor to Lloyd's Register of Shipping

Joh. P. Vrouwe



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