

REPORT ON WATER TUBE BOILERS.

No. 28666

120 NOV 1939

Received at London Office

Writing Report 10-11-1939 When handed in at Local Office 19 Port of ROTTERDAM

Survey held at ROTTERDAM Date, First Survey 27-3-39 Last Survey 11-10-1939

on the TWIN SCREW STEAMER "SAROENA" (Number of Visits 22) Tons Gross 6071 Net 3801

at SCHIEDAM By whom built N.V. WILTON-EVENOORD When built 1939

Boilers made at ROTTERDAM By whom made ROTT. DROOGDOK M.Y. When made 1939

Boilers made at ROTTERDAM By whom made ROTT. DROOGDOK M.Y. When made 1939

Indicated Horse Power 733 Owners NED. INDISCHE-TANKSTOOMBOORTM.F. Port belonging to S. GRAVENHAGE

WATER TUBE BOILERS—MAIN, AUXILIARY, OR DONKEY.—Manufacturers of Steel MESSRS CULVILLE LTD

Date of Approval of plan 25-11-38 Number and Description or Type

Boilers Two BABCOCK & WILCOCK W.T. Working Pressure 220 lbs. Tested by Hydraulic Pressure to 300 lbs. Date of Test 10-11-39

Certificate 1025 Can each boiler be worked separately YES. Total Heating Surface of Boilers 2x5320 sq. ft.

Is draught fitted YES. Area of fire grate (coal) in each Boiler OIL FIRED.

Kind and type of burners (oil) in each boiler 5 Smith's patent. No. and description of safety valves on boiler 2 improved pressure relief valves. Area of each set of valve 88 m.m. Pressure to which they are adjusted 220 lbs.

Are they fitted with easing gear YES. In case of donkey boilers state whether steam from main boilers can enter the donkey boiler

Least distance between boilers or uptakes and bunkers or woodwork 4 ft. Height of boiler 11' 13 1/2" Width and Length 9' 4 1/4" x 13' 7 1/2"

Drums:—Number in each boiler one. Inside diameter 3' 0". Thickness of plates 9/16" in way of tubes 1 1/16"

Kind of Tensile Strength 28-32 tons. Are drum shell plates welded or flanged welded at ends. Description of riveting:—

Seams Lap 2x riv. long. seams double riv. Dia. Diameter of rivet holes in long. seams 19/32" Pitch of rivets 3, 4, 9, 10, 7"

Kind of plate or width of butt straps inner 9/16" Thickness of straps 9/16" Percentage strength of long. joint:—Plate 74.04% Rivet 98.77%

Diameter of tube holes in drum 4.047" Pitch of tube holes 7" Percentage strength of shell in way of tubes 41.73%

Working pressure by rules 270, 2 lbs. Steam Drum Heads or Ends:—Range of tensile strength 20-30 tons Thickness of plates 7/8"

How or how stayed 3 0" Size of manhole or handhole 16" x 12" Working pressure by rules 225, 8 lbs. Water Drums:—Number

in each boiler one. Inside Diameter one. Thickness of plates one. Range of tensile strength one. Are drum shell plates

welded or flanged one. Description of riveting:—Cir. seams one. long. seam one. Diameter of rivet holes in

headers or sections one. Pitch of rivets one. Lap of plates or width of butt straps one. Thickness of straps one.

Percentage strength of long. joint:—Plate one. Rivet one. Diameter of tube holes in drum one. Pitch of tube holes one.

Percentage strength of drum shell in way of tubes one. Working pressure by rules one. Water Drum Heads or Ends:—Range of

tensile strength one. Thickness of plates one. Radius or how stayed one.

Size of manhole or handhole one. Working pressure by rules one. Headers or Sections:—Number 29.

Material M. steel. Thickness 3/4" Tested by Hydraulic Pressure to 300 lbs. Tubes:—Diameter 1 1/16"

Kindness No. 1094.19 Number 1024. Steam Dome or Collector:—Description of Joint to Shell

Inside diameter one. Thickness of shell plates one. Range of tensile strength one.

Description of longitudinal joint one. Diameter of rivet holes one. Pitch of rivets one. Lap of plate or width of

straps one. Thickness of straps one. Percentage strength of long. joint one. Plate one. Rivet one.

Working Pressure of shell by rules one. Crown or End Plates:—Range of tensile strength one.

Kindness one. Radius or how stayed one. Working pressure by rules one.

PERHEATER. Drums or Headers:—Number in each boiler one. Inside Diameter one.

Kindness one. Material one. Range of tensile strength one. Are drum shell plates welded

welded or flanged one. Description of riveting:—Cir. seams one. long. seams one. Diameter of rivet holes in

seams one. Pitch of rivets one. Lap of plates or width of butt straps one. Thickness of straps one.

Percentage strength of long. joint:—Plate one. Rivet one. Diameter of tube holes in drum one. Pitch of tube holes one.

Percentage strength of drum shell in way of tubes one. Working pressure by rules one. Drum Heads or Ends:—

Kindness one. Range of tensile strength one. Radius or how stayed one. Size of manhole or handhole one.

Working pressure by rules one. Number, diameter, and thickness of tubes one. Tested by Hydraulic Pressure to

Date of Test one. Is a safety valve fitted to each section of the superheater which can be shut off from the boiler

Kindness and description of Safety Valves one. Area of each set of valves one.

Pressure to which they are adjusted one. Is easing gear fitted one.

Is Easing Gear. Has the spare gear required by the rules been supplied YES.

P. DE ROTTERDAMSCHER DROOGDOK MIJ.
The foregoing is a correct description,
[Signature]
Manufacturer.

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

GENERAL REMARKS (State quality of workmanship, opinions as to class, &c.) THESE BOILERS HAVE BEEN EXAMINED

DURING CONSTRUCTION, MATERIAL TESTED AS REQUIRED AND WORKMANSHIP GOOD. ALL

IN ACCORDANCE WITH THE APPROVED PLANS AND SOCIETY'S RULES.

Survey Fee ... £ : : } When applied for, 10
Travelling Expenses (if any) £ : : } When received, 10

Engineer's Minute

signed See Rev. J.E. 28666

