

## 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 "SAROEENA" (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. DROOGDOEK M.Y. When made 1939

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Boiler Horse Power 733 Owners NED. INDISCHE-TANKSTOOMBOORT Port belonging to S. GRAVENHAGE

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

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

of Certificate 1025 Can each boiler be worked separately YES Total Heating Surface of Boilers 2 x 5320 sq. ft.

Feed draught fitted YES Area of fire grate (coal) in each Boiler 014 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 type Area of each set of valve 88 m.m. Pressure to which they are adjusted 220 lbs.

Boilers 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 1/2" 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"

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

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

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, 280/0 Steam Drum Heads or Ends:—Range of tensile strength 20-30 tons Thickness of plates 7/8"

Radius or how stayed 30" Size of manhole or handhole 16" x 12" Working pressure by rules 335, 8 lbs. Water Drums:—Number

Boiler Inside Diameter Thickness of plates Range of tensile strength Are drum shell plates

Welded or flanged Description of riveting:—Cir. seams long. seam 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 Working pressure by rules Water Drum Heads or Ends:—Range of

Range of tensile strength Thickness of plates Radius or how stayed

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

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

Thickness 18.1094.19 Number 1024 Steam Dome or Collector:—Description of Joint to Shell

Range of tensile strength

Diameter of rivet holes Pitch of rivets Lap of plate or width of

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

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

Thickness Radius or how stayed Working pressure by rules

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

Thickness Material Range of tensile strength Are drum shell plates welded

Angled 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 Working pressure by rules Drum Heads or Ends:—

Thickness Range of tensile strength Radius or how stayed Size of manhole or handhole

Working pressure by rules 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

Kind and description of Safety Valves Area of each set of valves

Pressure to which they are adjusted Is easing gear fitted

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

The foregoing is a correct description,

Manufacturer.

During progress of work in shops -- March 27, April 17, May 12, 15, 23, 26, June 7, 16, 18, 25, 29, July 3, 5, 11, 17, 19, 25, 31, Aug 4, 8, 12, 15, 19, 25, 31, Sept 4, 8, 12, 15, 19, 25, 31, Oct 2, 6, 10, 13, 17, 20, 24, 27, 31, Nov 3, 7, 10, 14, 17, 21, 24, 28, Dec 1, 5, 8, 12, 15, 19, 22, 26, 29, 31

During erection on board vessel -- Oct. 11

Total No. of visits 22.

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

Committee's Minute  
Signed

See Rot. F.C. 28666

Engineer Surveyor to Lloyd's Register of Shipping.

Lloyd's Register  
Foundation

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