

REPORT ON WATER TUBE BOILERS.

No. 16443^D

Received at London Office

11 NOV 1947

Date of writing Report 3rd Nov. 1947 When handed in at Local Office

19

Port of Amsterdam

No. in Survey held at Amsterdam

Date, First Survey 24th Oct.Last Survey 30th Oct. 1947

Reg. Bk. 31986 on the S/S "AMSTELDIEP" (ex "Robert Fruin")

(Number of Visits 3)

Gross 7229.49
Tons Net 4429.65

Master Built at Portland Or. By whom built Oregon Shipbuilding Corp. When built 1943

Engines made at Portland Or. By whom made The Iron Fireman Manuf. Co. When made 1943

Boilers made at Saginaw Mich. By whom made The Wickes Boiler Co. When made 1943

Registered Horse Power 2500 I.H.P. Owners Royal Netherlands Government Port belonging to the Hague

WATER TUBE BOILERS—MAIN, AUXILIARY, OR DONKEY.—Manufacturers of Steel The Lukens Steel Co.

(Letter for Record ☒) Date of Approval of plan 250 Number and Description or Type

of Boilers 2-Babcock & Wilcox Type Working Pressure 240 lbs Tested by Hydraulic Pressure to Date of Test

No. of Certificate Can each boiler be worked separately yes Total Heating Surface of Boilers 10,233 sq. ft.

Is forced draught fitted yes 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 4 Peabody No and description of safety valves on

each boiler 2-spring loaded (4") Area of each valve 12,600 Pressure to which they are adjusted 240 lbs

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 2' 10" Height of Boiler 16' 5 1/2" Width and Length 14' 7 1/4" - 18'

Steam Drums:—Number in each boiler one Inside diameter 47 3/8" Material of plates SM steel Thickness 15/16"

Range of Tensile Strength Are drum shell plates welded or flanged welded Description of riveting:—

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 4 1/32" Pitch of tube holes 7" Percentage strength of shell in way of tubes 42.8%

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 SM steel Thickness 15/16" Radius or how stayed

Size of Manhole or Handhole 12" x 16" 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 22 uptake 22 down take

Material steel Thickness 19/32" Tested by Hydraulic Pressure to Material of Stays 22 x 4"

Area at smallest part Area supported by each stay Working Pressure by Rules Tubes:—Diameter 602 x 2"

Thickness Number 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

UPERHEATER. Type ordinary Date of Approval of Plan 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 yes

Diameter of Safety Valve 1 1/2" Pressure to which each is adjusted 240 lbs Is easing gear fitted yes

Is a drain cock or valve fitted at lowest point of superheater yes Number, diameter, and thickness of tubes 22 x 2"

Spare Gear. Tubes yes Gaskets or joints:—Manhole yes Handhole yes Handhole plates yes

The foregoing is a correct description,

Manufacturer.

Dates of Survey } During progress of work in shops - -
while building } During erection on board vessel - -

Is the approved plan of boiler forwarded herewith yes

Total No. of visits

GENERAL REMARKS (State quality of workmanship, opinions as to class, &c.) The boilers have been built under A.B.S. supervision. They have been examined internally and externally and found in a satisfactory state of up keep. The particulars have been verified and found in accordance with the Standard Plans. With regard to circular N° 1871 an automatic feedwater regulator remains to be fitted to each boiler to comply with the Rules. The mountings and safety valves have been opened, examined and found or made in order. Both boilers tried under steam with satisfactory results and safety valves adjusted. I am of opinion that these boilers merit the approval of the Committee, and may be assigned in the Register book with record of BS. 10,47

Survey Fee ..on Survey Rpt. 9 When applied for, 19

Travelling Expenses (if any) £ : : When received, 19

Engineer Surveyor to Lloyd's Register of Shipping.

Committee's Minute

Assigned

FRI. 19 DEC 1947



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Foundation

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