

REPORT ON WATER TUBE BOILERS.

No. 22881

Received at London Office 22 DEC 1947

Date of writing Report 15 December 1947 When handed in at Local Office 15 December 1947 Port of Grimsby
 No. in Survey held at Immingham Date, First Survey 22 August Last Survey 6 December 1947
 Reg. Bk. SUPP. 1909 on the Steel Screw 'SKIPSEA' (ex SAMCONSTANT) Tons { Gross 7210 Net 4447
 built at Baltimore By whom built Bethlehem Fairfield Shipyard Inc When built 1944
 Engines made at Hamilton, Ont. By whom made General Machinery Corporation When made 1944
 Boilers made at M.N. By whom made Babcock and Wilcox Ltd When made 1944
 Nominal Horse Power 668 Owners Sea. S. S. Co Ltd Port belonging to Hull

WATER TUBE BOILERS—MAIN, AUXILIARY, OR DONKEY.—Manufacturers of Steel American Steel Co
 Date of Approval of plan Number and Description or Type
 of Boilers Two Babcock and Wilcox Working Pressure 250 lbs Tested by Hydraulic Pressure to Date of Test
 No. of Certificate Can each boiler be worked separately Yes Total Heating Surface of Boilers 10233 sq ft
 Is forced draught fitted Yes Area of fire grate (coal) in each boiler No. and description of safety valves on
 No. and type of burners (oil) in each boiler Four Decagon Type
 Each boiler Two Spring loaded Area of each set of valves per boiler per rule Pressure to which they
 are adjusted 250 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 32 ins Height of boiler 16'-6"
 Width and Length 14'-6" x 12'-9" Steam Drums:—Number in each boiler One Inside diameter 47 3/8"
 Thickness of plates 15/16" Range of Tensile Strength 60-70,000 lbs/sq in Are drum shell plates welded
 or flanged welded 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:—Cir. 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 4 1/32" Pitch of tube holes 7"
 Percentage strength of shell in way of tubes Steam Drum Heads:—Range of tensile strength 60-70,000 lbs/sq in
 Thickness of plates 15/16" Radius or how stayed 3'-3" Size of manhole or handhole 12" x 16" 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:—Cir. seams long. seam
 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:—Number 44 Material Steel Thickness 19/32" Tested by Hydraulic Pressure to
 Tubes:—Diameter 4" and 2" Thickness 10 and 6 Blw's Number 602 and 88 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 of 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:—Number in each boiler Two Inside Diameter 6" x 6" square
 Thickness 5/8" Material Steel Range of tensile strength 60-70,000 lbs/sq in 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:—Cir. 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 Head:—Range of tensile strength 60-70,000 lbs/sq in
 Radius or how stayed Size of manhole or handhole 5" x 5" Number, diameter, and thickness of tubes 22-2" x 10 Blw's
 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 No. and description of Safety Valves One Spring loaded Area of each set
 of valves 1.767 sq in Pressure to which they are adjusted 230 lbs/sq in Is easing gear fitted Yes
 Spare Gear. Has the spare gear required by the rules been supplied

The foregoing is a correct description,

Manufacturer.

Dates of Survey { During progress of work in shops - - } Is the approved plan of boiler forwarded herewith
 while building { During erection on board vessel - - } Total No. of visits

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 workmanship of these boilers is good and they are efficiently installed on board and the safety valves have been adjusted under steam to 250 lbs/sq in (Spt. 230 lbs)

Survey Fee See mach. spt. attached When applied for, 19
 Travelling Expenses (if any) £ : : When received, 19

Committee's Minute Assigned

FRI. 23 JAN 1948

Engineer Surveyor to Lloyd's Register of Shipping.

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