

# REPORT ON WATER TUBE BOILERS.

No. 22881

Received at London Office 22 DEC 1947

Date of writing Report 18 December 1947 When handed in at Local Office 18 December 1947 Port of Grimsby

No. in Survey held at Birmingham Date, First Survey 22<sup>nd</sup> August Last Survey 6<sup>th</sup> December 1947

Reg. Bk. SUPP. 7909 on the Steel Screw 'SKIPSEA' (EX SAMCONSTANT) (Number of Visits 12.) 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

Principal 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 \_\_\_\_\_

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 No. and description of safety valves on \_\_\_\_\_

Each boiler Two Spring loaded Area of each set of valves per boiler \_\_\_\_\_ Pressure to which they \_\_\_\_\_

Are they fitted with easing gear Yes In case of donkey boilers state whether steam from main boilers can enter \_\_\_\_\_

Smallest distance between boilers \_\_\_\_\_ and bunkers \_\_\_\_\_ 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 \_\_\_\_\_

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 \_\_\_\_\_

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 or Ends:—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 \_\_\_\_\_

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 — Sections:—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 \_\_\_\_\_

Brown or End Plates:—Range of tensile strength \_\_\_\_\_ Thickness \_\_\_\_\_ Radius or how stayed \_\_\_\_\_

SUPERHEATER/ Headers:—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 \_\_\_\_\_

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 \_\_\_\_\_

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 \_\_\_\_\_ Steam Drum Heads or Ends:—Thickness 5/8" 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 ✓

{ 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)

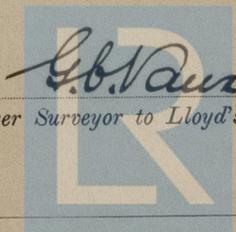
Survey Fee See mach. spt. attached When applied for, \_\_\_\_\_ 19 \_\_\_\_\_

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

Committee's Minute \_\_\_\_\_ FRI. 23 JAN 1948

Assigned \_\_\_\_\_ See minute on file, rpt

Engineer Surveyor to Lloyd's Register of Shipping.



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015139-015154-0070