

REPORT ON WATER TUBE BOILERS.

No. 80755

Received at London Office

19 AUG 1953

Date of writing Report 7-8-1953 When handed in at Local Office 19 Port of Glasgow
 No. in Survey held at DUMBARTON Date, First Survey 19 Last Survey 19
 Reg. Book. S. S. GEORGE (Number of Visits) Tons Gross 9150.
 on the 5. S. GEORGE Net 5282
 Built at DUMBARTON By whom built W^M. DENNY & BROS Yard No. 1460 When built 1953
 Engines made at DUMBARTON By whom made W^M. DENNY & BROS Engine No. 1196 When made 1953
 Boilers made at DUMBARTON By whom made W^M. DENNY & BROS LTD Boiler No. 1196 When made 1953
 Nominal Horse Power 5500 Owners. Port belonging to

WATER TUBE BOILERS—MAIN, AUXILIARY, OR DONKEY.—Manufacturers of Steel COLVILLE STEEL CO OF SCOTLAND TUBES LTD.

Date of Approval of plan 10-4-51 30-7-51 No. and Description or Type 16-1-53 PORT
 of Boilers Two- FOSTER WHEELER D TYPE DESIGN Working Pressure 480 lbs Tested by Hydraulic Pressure to 770 lbs Date of Test 20-1-53
 No. of Certificate 23798 - PORT Can each boiler be worked separately YES Total Heating Surface of Boilers 6564 ft²
 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 4 WALLSEND HOWDEN TYPE No. and description of safety valves on
 each boiler ONE - 2" SINGLE SPRING ON DRUM Pressure to which they
 are adjusted ONE - 2" DOUBLE SPRING ON SUPHTR Area of each set of valves per boiler as fitted 3.14, & 4.9 sq. ins
 the donkey boiler No. Smallest distance between boilers or uptakes and bunkers or woodwork Height of boiler 20'-10"
 Width and length 17'-6" x 12'-0" Steam Drums:—Number in each boiler ONE Inside diameter 42"
 Thickness of plates 1 5/8" Range of tensile strength 28-32 TONS Are drum shell plates welded
 or flanged WELDED If fusion welded, state name of welding firm JOHN THOMPSON (WOLVERHAMPTON) LTD Have all the requirements of the Rules
 for Class I vessels been complied with YES Description of riveting:—Circ. 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 1 1/4", 2", 2 1/2", 3" Pitch of tube holes 2 1/4" x 2 3/4", 4 1/2"
 Percentage strength of shell in way of tubes Steam Drum Heads or Ends:—Range of tensile strength 26-30 TONS
 Thickness of plates 1 3/4", 1 7/8" Radius or how stayed RADIUS 42" Size of manhole or handhole 16" x 12" Water Drums:—Number
 in each boiler ONE Inside diameter 33" Thickness of plates 1 9/32" Range of tensile strength 28-32 TONS Are drum shell plates
 welded or flanged WELDED If fusion welded, state name of welding firm JOHN THOMPSON (WOLVERHAMPTON) LTD Have all the requirements of the Rules
 for Class I vessels been complied with YES Description of riveting:—Circ. seams ZIG-ZAG LAP 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 1 1/4", 2", 2 1/2", 3" Pitch of tube holes 2 1/4" x 2 3/4", 4 1/2"
 Percentage strength of drum shell in way of tubes Water Drum Heads or Ends:—Range of tensile strength 26-30 TONS
 Thickness of plates 1 3/16", 1 5/16" Radius or how stayed RADIUS 30" Size of manhole or handhole 16" x 12"
 Headers or Sections:—Number THREE /BLK Material M.S. Thickness 1" Tested by hydraulic pressure to 960 lbs before drilling
 Tubes:—Diameter 1 1/4", 2", 2 1/2", 3" Thickness 11/16", 7/16", 1/2", 5/8", 3/4", 1" Number 1038, 256, 2, 8, 5/SHIP 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 for 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, Drums or Headers:—Number in each boiler TWO Inside diameter 6 1/4" SQUARE
 Thickness 1 1/8" Material M.S. Range of tensile strength 28-32 TONS Are drum shell plates welded
 or flanged SOLID DRAWN 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:—Circ. 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 1 1/4" Pitch of tube holes 2 1/8" Percentage strength of
 drum shell in way of tubes Drum Heads or Ends:—ENDS Thickness 1 1/2" Range of tensile strength 28-32 TONS
 Radius or how stayed WELDED Size of manhole or handhole 5-2-53 Number, diameter, and thickness of tubes 280/SHIP 1 1/4" 11 G
 Tested by hydraulic pressure to 770 lbs Date of test PORT 10-2-53 Is a safety valve fitted to each section of the superheater which
 can be shut off from the boiler No. and description of safety valves Area of each set
 of valves Pressure to which they are adjusted Is easing gear fitted
 Spare Gear. Has the spare gear required by the Rules been supplied YES

For WILLIAM DENNY & BROS. LTD.

The foregoing is a correct description,

W. Denny Director

Manufacturer.

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

Is this boiler a duplicate of a previous case. YES If so, state vessel's name and report No. T.S. MARTABAN

GENERAL REMARKS (State quality of workmanship, opinions as to class, &c.) The Boilers have been constructed under
 Special Survey in accordance with the Rules & Approved Plans material & workmanship
 good, afterwards the boilers have been satisfactorily installed in the vessel. Safety valves
 adjusted & accumulation trials carried out. The boilers are eligible in my opinion to be
 classed with the main machinery & L.M.C.

Survey Fee ... £ 115 : 4 : 0 When applied for 118 AUG 1953
 Travelling Expenses (if any) £ : : When received

GLASGOW

28 AUG 1953

J. P. Craterley
Engineer Surveyor to Lloyd's Register of Shipping.

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Foundation

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