

REPORT ON WATER TUBE BOILERS.

No. 44501

Date of writing Report 13th March 1925 When handed in at Local Office 14th 1925 Port of Glasgow Received at London Office 18 MAR 1925

No. in Survey held at Glydebank Date, First Survey 26.2.25 Last Survey 12th March 1925
 Reg. Bk. on the Twin screw turbine "Princess Marguerite" Number of Visits 81 Gross 5875 Tons
 Master Built at Glydebank By whom built John Brown & Co. Ltd. When built 1925 Net 2719
 Engines made at Glydebank By whom made John Brown & Co. Ltd. When made 1925
 Boilers made at Glydebank By whom made John Brown & Co. Ltd. When made 1925
 Registered Horse Power Owners Canadian Pacific Port belonging to Victoria B.C.

WATER TUBE BOILERS—MAIN, AUXILIARY, OR DONKEY.—Manufacturers of Steel D. Bovill & Sons Ltd.

(Letter for Record S.) Date of Approval of plan 29.1.24. Number and Description of Type 2 Jarow type W. J. Working Pressure 200 Tested by Hydraulic Pressure to 350 Date of Test 16.9.24
 No. of Certificate 16619 Can each boiler be worked separately Yes Total Heating Surface of Boilers 12120 sq ft Date of Test 26.9.24
 Is forced draught fitted Yes Area of fire grate (coal) in each Boiler 7.7 Total grate area of boilers in vessel including Main and Auxiliary 7.7
 No. and type of burners (oil) in each boiler 7. Halland No. and description of safety valves on each boiler Double, spring loaded high lift Area of each valve 12.56 sq in Pressure to which they are adjusted 205
 Are they fitted with easing gear Yes In case of donkey boilers state whether steam from main boilers can enter the donkey boiler Yes
 Smallest distance between boilers or uptakes and bunkers 26" Height of Boiler 12.11 1/4" Width and Length 16.1 1/4 x 14.7 3/4"
 Steam Drums:—Number in each boiler One Inside diameter 54" Material of plates S Thickness 5/8"
 Range of Tensile Strength 26-32 Are drum shell plates welded or flanged No Description of riveting:—
 Cir. seams J.R. long. seams J.R. Diameter of rivet holes in long. seams 27/32" Pitch of Rivets 3.353"
 Lap of plates or width of butt straps outer 8 3/4" Thickness of straps inner 9/16" Percentage strength of long. joint:—Plate 74.83 Rivet 82.17
 Diameter of tube holes in drum 1 1/2" x 1 1/4" Pitch of tube holes 2 1/8" x 1 7/8" Percentage strength of shell in way of tubes 29.4
 If Drum has a flat side state method of staying Yes Depth and thickness of girders at centre (if fitted) Yes
 Distance apart Yes Number and pitch of stays in each Yes Working pressure by rules Yes
 Steam Drum Heads or Ends:—Material S Thickness 1" x 1 1/8" Radius or how stayed 54"
 Size of Manhole or Handhole 16" x 12" Water Drums:—Number in each boiler 2 Inside Diameter 30"
 Material of plates S Thickness lower 5/8" upper 1 1/8" Range of tensile strength 26-30 Are drum shell plates welded or flanged No
 Description of riveting:—Cir. seams S.R. long. seams J.R. Diameter of Rivet Holes in long. seams 27/32" Pitch of rivets 3.137 Lap of plates or width of butt straps outer 8 5/8" Thickness of straps inner 9/16"
 Percentage strength of long. joint:—Plate 73.1 Rivet 94.59 Diameter of tube holes in drum 1 1/2" x 1 1/4" Pitch of tube holes 2 1/8" x 1 7/8"
 Percentage strength of drum shell in way of tubes 29.4 Water Drum Heads or Ends:—Material S Thickness 7/8"
 Radius or how stayed 30" Size of manhole or handhole 16" x 12" Headers or Sections:—Number Yes
 Material Yes Thickness Yes Tested by Hydraulic Pressure to Yes Material of Stays Yes
 Area at smallest part Yes Area supported by each stay Yes Working Pressure by Rules Yes Tubes:—Diameter Yes
 Thickness Yes Number Yes Steam Dome or Collector:—Description of Joint to Shell Yes
 Percentage strength of Joint Yes Diameter Yes Thickness of shell plates Yes Material Yes
 Description of longitudinal joint Yes Diameter of Rivet Holes Yes Pitch of Rivets Yes Working Pressure of shell by Rules Yes
 Crown or End Plates:—Material Yes Thickness Yes How stayed Yes

SUPERHEATER. Type See accompanying Machinery Report Date of Approval of Plan 29.1.24. Tested by Hydraulic Pressure to Yes
 Date of Test Yes Is a safety valve fitted to each section of the superheater which can be shut off from the Boiler Yes
 Diameter of Safety Valve Yes Pressure to which each is adjusted Yes Is easing gear fitted Yes
 Is a drain cock or valve fitted at lowest point of superheater Yes Number, diameter, and thickness of tubes Yes
 Spare Gear. Tubes Yes Gaskets or joints Yes Manhole Yes Handhole Yes Handhole plates Yes

John Brown & Company, Limited.
 The foregoing is a correct description,
J. Anderson Manufacturers
 Clydebank Secretary.

Dates of Survey } During progress of work in shops Yes Is the approved plan of boiler forwarded herewith Yes
 while building } During erection on board vessel Yes Total No. of visits 81

GENERAL REMARKS (State quality of workmanship, opinions as to class, &c.) These boilers have been built under special survey in accordance with the approved plans, and the Society's Rules and requirements, the materials and workmanship are good. The Boilers have been securely fitted on board, and satisfactorily tried under steam.

Survey Fee ... £ ✓ : : } When applied for, 191
 Travelling Expenses (if any) £ ✓ : : } When received, 191

J. Cairns
 Engineer Surveyor to Lloyd's Register of Shipping.

Committee's Minute GLASGOW 17 MAR 1925
 Assigned See accompanying machinery report



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