

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 Net 2719
 Master Built at Glydebank By whom built John Brown & Co. Ltd. When built 1925
 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. Boville & Sons Ltd.

(Letter for Record S.) Date of Approval of plan 29.1.24. Number and Description of Type 16-9-24
 of Boilers 2 Jarrold type W. T. Working Pressure 200 Tested by Hydraulic Pressure to 350 Date of Test 26-9-24
 No. of Certificate 16619 Can each boiler be worked separately Yes Total Heating Surface of Boilers 12120 sq ft
 Is forced draught fitted Yes Area of fire grate (coal) in each Boiler 7. Halland Total grate area of boilers in vessel including
 Main and Auxiliary Double, spring loaded high lift 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 16.14 x 14.7 3/4"
 Steam Drums:—Number in each boiler One Inside diameter 54" Material of plates 8 Thickness 1 1/2"
 Range of Tensile Strength 26-30 Are drum shell plates welded or flanged No Description of riveting:—
 Cir. seams A.R. long. seams A.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 1/16" 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 8 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 8 Thickness outer 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 A.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 1/16"
 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 8 Thickness 7/8"
 Radius or how stayed 30" Size of manhole or handhole 16" x 12" Headers or Sections:—Number
 Material 8 Thickness 8 Tested by Hydraulic Pressure to 350 Material of Stays
 Area at smallest part 30" Area supported by each stay 30" Working Pressure by Rules 30" Tubes:—Diameter
 Thickness 30" Number 30" Steam Dome or Collector:—Description of Joint to Shell
 Percentage strength of Joint 30" Diameter 30" Thickness of shell plates 30" Material
 Description of longitudinal joint 30" Diameter of Rivet Holes 30" Pitch of Rivets 30" Working Pressure of shell
 by Rules 30" Crown or End Plates:—Material 30" Thickness 30" How stayed 30"

SUPERHEATER. Type See accompanying Machinery Report Date of Approval of Plan 29.1.24. Tested by Hydraulic Pressure to 350
 Date of Test 26.9.24. 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 205 Is easing gear fitted Yes
 Is a drain cock or valve fitted at lowest point of superheater Yes Number, diameter, and thickness of tubes 28 x 1 1/8"
 Spare Gear. Tubes 28 x 1 1/8" Gaskets or joints 28 x 1 1/8" Manhole 28 x 1 1/8" Handhole 28 x 1 1/8" Handhole plates 28 x 1 1/8"

John Brown & Company, Limited.

The foregoing is a correct description,

W. Henderson Manufacturers
Glydebank Secretary.

Dates of Survey See accompanying Machinery Report During progress of work in shops Yes Is the approved plan of boiler forwarded herewith Yes
 while building See accompanying Machinery Report 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

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

Engineer Surveyor to Lloyd's Register of Shipping.

Lloyd's Register Foundation

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