

REPORT ON WATER TUBE BOILERS.

No. 72022

Date of writing Report 21st August 1947 When handed in at Local Office 3 9 1947 Port of Glasgow
 No. in Survey held at Glasgow Date, First Survey 27 9 45 Last Survey 19th August 1947
 Reg. Book. 0050 on the 'BEAVERCOVE' (Number of Visits 111) Gross 9824 Tons Net 5818.5
 Built at Govan By whom built Fairfield S & S 40 d 4 Yard No. 728 When built 1947-8
 Engines made at Newcastle-on-Tyne By whom made C. A. Parsons 40 d 4 Engine No. 2692-5 When made 1947
 Boilers made at Govan By whom made Fairfield S & S 40 d 4 Boiler No. 728 When made 1947
 Nominal Horse Power. Owners. Canadian Pacific Steamships 40 d 4 Port belonging to London

WATER TUBE BOILERS—MAIN, AUXILIARY, OR DONKEY.—Manufacturers of Steel

Date of Approval of plan 30.8.45 No. and Description or Type
 of Boilers 1 - Johnson W.T. Working Pressure 850 lb Tested by Hydraulic Pressure to 1325 lb Date of Test 8.7.46
 No. of Certificate 22216 Can each boiler be worked separately Total Heating Surface of Boilers 7660 sq ft
 Is forced draught fitted Yes Area of Fire Grate (coal) in each Boiler 5' Wallsend Slipway
 No. and type of burners (oil) in each boiler 1 - combined 3' 4" 2" Imp High Lift
 Area of each set of valves per boiler per rule 10.25 0 Pressure to which they are adjusted 8.65 lb/sq in m superheaters 2" 10.21 0
 Are they fitted with easing gear Yes In case of donkey boilers state whether steam from main boilers can enter the donkey boiler No
 Smallest distance between boilers or uptakes and bunkers or woodwork 16" Height of boiler 7' 2"
 Width and length 17' 6" x 18' 6" Steam Drums:—Number in each boiler one Inside diameter 3' 6"
 Thickness of plates 3" Range of tensile strength 34/38 tons Are drum shell plates welded or flanged solid forged If fusion welded, state name of welding firm Have all the requirements of the Rules
 or 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 2 9/16" Pitch of tube holes 5"
 Percentage strength of shell in way of tubes 49% Steam Drum Heads or Ends:—Range of tensile strength 34/38 tons
 Thickness of plates 4 1/2" Radius or how stayed 1' 4" Size of manhole or handhole 16" x 12" Water Drums:—Number
 each boiler 1 Inside diameter 24" Thickness of plates 2" Range of tensile strength 34/38 Are drum shell plates welded or flanged solid forged If fusion welded, state name of welding firm Have all the requirements of the Rules
 or 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 2 3/8" Pitch of tube holes 5"
 Percentage strength of drum shell in way of tubes 49 Water Drum Heads or Ends:—Range of tensile strength 34/38
 Thickness of plates 3" Radius or how stayed 8" Size of manhole or handhole 16" x 12"
 Readers or Sections:—Number nil Material Steel Thickness 4 L.S.G. Number 214 Tested by hydraulic pressure to
 Tubes:—Diameter 2 1/4" Thickness 4 L.S.G. Number 214 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
 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 4 Outside Inside diameter 6 1/2"
 Thickness 3/4" Material Steel Range of tensile strength 28/32 Are drum shell plates welded or flanged solid down If fusion welded, state name of welding firm Have all the requirements of the Rules
 or 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 4 1/2" Percentage strength of drum shell in way of tubes
 Drum Heads or Ends:—Thickness Range of tensile strength
 Radius or how stayed Size of manhole or handhole Number, diameter, and thickness of tubes 32 2 1/4" x 7 L.S.G.
 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 No. and description of safety valves Area of each set of valves
 Pressure to which they are adjusted Is easing gear fitted

Are Gear. Has the spare gear required by the Rules been supplied Yes.
 Greens & Bonomi also Reheater by The Superheater Co. Ltd. fitted
 Reheater Tubes 262 1 3/4 x 8 WG
 The foregoing is a correct description For The FAIRFIELD SHIPBUILDING & ENGINEERING Co. Ltd.
 S. H. Macdonald Manufacturer.

Dates During progress of work in shops - See attached machinery report
 While During erection on board vessel -
 Is the approved plan of boiler forwarded herewith
 Total No. of visits -

Is this boiler a duplicate of a previous case Yes If so, state vessel's name and report No. BEAVERGLEN HAN 70347

GENERAL REMARKS (State quality of workmanship, opinions as to class, &c. This Boiler has been built under Special survey in accordance with the Rules & approved plans. Materials & workmanship good. The Boiler has been efficiently installed in the vessel & Safety Valves adjusted under Steam as shown

Survey Fee ... £ 19
 Travelling Expenses (if any) £ 19
 When applied for 19
 When received 19

Date.

GLASGOW

9 SEP 1947

Committee's Minute. SEE ACCOMPANYING MACHINERY REPORT.

S. H. Macdonald
 Engineer Surveyor to Lloyd's Register of Shipping.