

5c.

REPORT ON WATER TUBE BOILERS.

No. 69306

Received at London Office

15 FEB 1945

21 JUN 1945

Writing Report 19 When handed in at Local Office 10.2.1945 Port of GLASGOW
 in Survey held at RENFREW Date, First Survey 16.6.43 Last Survey 1st Feb., 1945
 on the TW. SC. TRANSPORT FERRY J. 11723 (No. 3037) (Number of Visits 21)
 at GLASGOW By whom built MESSRS. THE FAIRFIELD SHIPBUILDING & ENGINEERING Co. Ltd., When built 1945
 es made at RENFREW By whom made BABCOCK & WILCOX, Ltd. 10/1630 No. 11. When made 1945
 rs made at RENFREW Owners THE ADMIRALTY Port belonging to 11.
 al/Horse Power 658.25

WATER TUBE BOILERS—MAIN, AUXILIARY, OR DONKEY.—Manufacturers of Steel Colvilles Ltd.
 of Approval of plan 24.2.43. Number and Description or Type
 boilers 1 - Three Drum Small Tube type Working Pressure 225 lbs Tested by Hydraulic Pressure to 387 lb. Date of Test 16.2.44.
 of Certificate 21649 Can each boiler be worked separately Yes Total Heating Surface of Boilers 5325 sq.ft.
 forced draught fitted Area of fire grate (coal) in each Boiler
 and type of burners (oil) in each boiler 4 - Admiralty type No. and description of safety valves on
 boiler 1-4" High Lift Double Area of each set of valve 25.12 sq.in. Pressure to which they are adjusted 225 lb.
 they fitted with easing gear Yes In case of donkey boilers state whether steam from main boilers can enter the donkey boiler
 least distance between boilers or uptakes and bunkers or woodwork
 in Drums:—Number in each boiler One Inside diameter 4'2" Thickness of plates 5" & 1 1/2" Width and Length 11'10 1/2" Width 11'9.9/16" Length
 of Tensile Strength 28/32 tons Are drum shell plates welded or flanged No. Description of riveting:—
 seams double long. seams DBS DR Diameter of rivet holes in long. seams 29/32" Pitch of rivets 3.4516"
 of plate or width of butt straps 9 7/16" Thickness of straps 1 1/2" Percentage strength of long. joint:—Plate 73.74 Rivet 88.06
 diameter of tube holes in drum 1", 1 1/8", 1 1/2" Pitch of tube holes 1 1/2", 1.11/16" Percentage strength of shell in way of tubes 32.3
 working pressure by rules app. 225 lbs. Steam Drum Heads or Ends:—Range of tensile strength 26/30 tons Thickness of plates 1.3/16" F 1" A.
 us 4'2" Size of manhole or handhole 16" x 12" Working pressure by rules app. 225 Water Drums:—Number
 ch boiler 2 Inside Diameter 22 3/4" Thickness of plates 1 1/2" Range of tensile strength 28/32 tons Are drum shell plates
 ed or flanged Seamless Description of riveting:—Cir. seams Single long. seam - Diameter of rivet holes in
 seams - Pitch of rivets - Lap of plates or width of butt straps - Thickness of straps -
 entage strength of long. joint:—Plate - Rivet - Diameter of tube holes in drum 1", 1 1/8", 1 1/2" Pitch of tube holes 1 1/2", 1.11/16"
 entage strength of drum shell in way of tubes 32.3 Working pressure by rules app. 225 lb. Water Drum Heads or Ends:—Range of
 ile strength 26/30 tons Thickness of plates 7/8" Radius 23"
 of manhole or handhole 16" x 12" Working pressure by rules app. 225 lb. Headers or Sections:—Number -
 rial - Thickness - Tested by Hydraulic Pressure to - Tubes:—Diameter 1", 1 1/8", 1 1/2"
 kness .104", .116", .116" Number 1530 @ 1 1/2" 364 @ 1 1/8" 186 @ 1" Steam Dome or Collector:—Description of Joint to Shell
 le diameter - Thickness of shell plates - Range of tensile strength
 ription of longitudinal joint - Diameter of rivet holes - Pitch of rivets - Lap of plate or width of
 straps - Thickness of straps - Percentage strength of long. joint - Plate - Rivet -
 king Pressure of shell by rules - Crown or End Plates:—Range of tensile strength
 kness - Radius or how stayed - Working pressure by rules
 PERHEATER. Drums or Headers:—Number in each boiler - Inside Diameter -
 kness - Material - Range of tensile strength - Are drum shell plates welded
 angled - Description of riveting:—Cir. seams - long. seams - Diameter of rivet holes in
 seams - Pitch of rivets - Lap of plates or width of butt straps - Thickness of straps -
 entage strength of long. joint:—Plate - Rivet - Diameter of tube holes in drum - Pitch of tube holes -
 entage strength of drum shell in way of tubes - Working pressure by rules - Drum Heads or Ends:—
 kness - Range of tensile strength - Radius or how stayed - Size of manhole or handhole -
 king pressure by rules - Number, diameter, and thickness of tubes - Tested by Hydraulic Pressure to -
 e of Test - Is a safety valve fitted to each section of the superheater which can be shut off from the boiler
 and description of Safety Valves - Area of each set of valves -
 sure to which they are adjusted - Is easing gear fitted -
 ure Gear. Has the spare gear required by the rules been supplied -

The foregoing is a correct description,

Babcock & Wilcox Ltd.

Manufacturer.

During progress of work in shops - - - 1943 Jan 16 Feb 27 Apr 6 30 Sep 13 20 29 Oct 28 Nov 2 10 Dec 2 16
 During erection on board vessel - - - 1944 Jan 5 Feb 4 10 16 Mar 3 16 19 25 31

Is the approved plan of boiler forwarded herewith No.

Total No. of visits 21

This boiler a duplicate of a previous case Yes. If so, state vessel's name and report No. Glasgow Report No. 68702.

GENERAL REMARKS (State quality of workmanship, opinions as to class, &c.) This boiler has been built under Special
key in accordance with the Rules and approved plans, and also in accordance with Admiralty Statement
requirements and as otherwise modified and approved by the Admiralty, and the materials and workman-
are good. It has been sent to the Shipbuilders for installation in the vessel.

Survey Fee ... £ 22 : 10 :
 Travelling Expenses (if any) £ : :
 Specification 22 10

When applied for, 13 FEB 1945
 When received, 19 JUN 1945

A/c rendered from
 London 19/2/45

Engineer Surveyor to Lloyd's Register of Shipping

Committee's Minute GLASGOW 13 FEB 1945
 signed Approved for Completion

003649-003658-0188