

at floor Rpt. 5e.
10 LB.
Crosby

REPORT ON BOILERS.

No. 66405

Date of writing Report 10 When handed in at Local Office 7 12 19 42 Port of Glasgow Received at London Office 10 DEC 1942
 No. in Survey held at Amman Date, First Survey 1942 Oct. 8th Last Survey 26-11-42 19
 Reg. Book. on the EMPIRE VICEROY (Number of Visits 8) Gross Tons Net Tons
 Built at Amman By whom built Buchanan & Co Amman 1st Yard No. When built
 Boilers made at Amman By whom made Buchanan & Co Amman 1st Boiler No. 15471 When made 1942
 Owners Port belonging to

VERTICAL DONKEY BOILER - No. one Description Buchanan Manufacturers of steel Buchanan Ltd
 Made at Amman By whom made Buchanan & Co Amman 1st When made 1942 Where fixed Hat above Working pressure 105 lb
 tested by hydraulic pressure to 208 Date of test 26-11-42 No. of Certificate 21251 Fire grate area (22.50) Description of safety valves ordinary
 No. of safety valves 2 Area of each 4.90 Pressure to which they are adjusted 105 lb If fitted with easing gear yes If steam from main boilers can enter the donkey boiler No Diameter of donkey boiler 6'-6" Length 16'-3" Material of shell plates S Thickness 19" 32" 15" 32"
 Range of tensile strength 28-32 Description of riveting long. seams W.R. Lap Diameter of rivet holes 27" 32" Whether punched or drilled drilled Pitch of rivets 2.66 2 1/16 2 27" 32" Lap of plating 1/4" Per centage of strength of joint Rivets 68.90 Working pressure of shell by rules 109.9 Thickness of shell crown plates 13" 7" 32" 8" Radius of do. 3'-3" No. of stays to do. Diameter of stays Diameter of furnace-Top Bottom 5'-6" Length of furnace Thickness of furnace side plates 1/2" Description of joint Seamless Working pressure of furnace by rules 125 Thickness of Ogee ring 7/8" Working pressure of Ogee ring by rules 109 Thickness of furnace crown plates 1/2" Radius of do. 2'-9" Stayed by Hemisphere Diameter of uptake 15" x 23" Thickness of uptake plates 9" 16" Thickness of tube plates front 27" 32" back 25" 32" Mean pitch of stay tubes in nest 11.54" Pitch in outer vertical rows 8"
 Diameter of tube holes FRONT stay 2 1/16" plain 2 9" 16" BACK stay 2 1/2" plain 2 1/2" Working pressure of tube plates by rules F106. B107 Tubes: Material S
 External diameter stay 2 1/2" plain 2 1/2" Thickness stay 11" 32" plain 10 LSG No. of threads per inch 9 Pitch of tubes 4" x 3 9" 16"
 Working pressure by rules 175 Manhole compensation; Size of opening in shell plate 21" x 17" Section of compensating ring 7 1/2" x 1" No. of rivets and diameter of rivet holes 40 @ 27" 32" Outer row pitch at ends 4 7/8"

The foregoing is a correct description,
 E. A. G. x. Manufacturer
 FOR BUCHANAN & CO., AMMAN, LTD.

Dates of Survey while building { During progress of work in shops - - 1942 Oct. 8, 16, 27, Nov. 6, 13, Drawing No. 27950
 { During erection on board vessel - - 17, 19, 26.
 Total No. of visits 8
 Is the approved plan of boiler forwarded herewith Retained for Ref No 15472

GENERAL REMARKS (State quality of workmanship, opinions as to class, &c.)
 The materials and workmanship are good.
 The boiler has been constructed under special survey.
 To the order of Messrs Richardson Westgarth & Co Ltd for their engine No 2734
 The boiler will be sent to Barrow-in-Furness to be fitted in the vessel.

Bob 7/12/42 Boiler fitted on board & safety valves adjusted at 100 lb/ft² to comply with Specification & strength of steam pipes Washers. F.O. 393. A.O. 468"
 D. J. G. x. x.

Survey Fee £ 4 : 4 : } When applied for Mon/c 19
 Travelling Expenses (if any) £ : : } When received 19

Committee's Minute GLASGOW 8 DEC 1942
 Assigned Referred for completion

Sh. Davis.
 Engineer Surveyor to Lloyd's Register of Shipping.

TUES. 14 SEP 1943
 see minute on Rev. J. E. R. p.
 Lloyd's Register Foundation
 012019-012026-0242