

## REPORT ON BOILERS.

No. 64654

13 NOV 1941

Received at London Office  
 Date of writing Report 10 When handed in at Local Office 11. 11. 1941 Port of Glasgow  
 No. in Survey held at Glasgow Date, First Survey 2. 9. 41 Last Survey 4. 11. 1941  
 Reg. Book. on the Ship Lighter VIC 70. (Number of Visits 9) Gross 96  
 Built at Thorne By whom built R Dunstan Ltd Yard No. 634 When built 1942. 4  
 Boilers made at Garfin By whom made Alex Anderson & Son Boiler No. 3678 When made 1941  
 Owners The Ministry of War Transport Port belonging to

**VERTICAL DONKEY BOILER** No. 1 Description Vertical Corn-tube Manufacturers of steel Babcock & Wilcox Ltd  
 Made at Garfin By whom made Alex Anderson & Son When made 1941 Where fixed Working pressure 120  
 tested by hydraulic pressure to 230 Date of test 4. 11. 41 No. of Certificate 2094 Fire grate area 21.75 Description of safety valves Double Spring  
 No. of safety valves 2 Area of each 3.14 Pressure to which they are adjusted 120 lb If fitted with easing gear Yes If steam from main boilers can enter the donkey boiler  
 Diameter of donkey boiler 6' 3" Height 14' 6" Material of shell plates Steel Thickness 1/2"  
 Range of tensile strength 28/32 Description of riveting long. seams DR lap Diameter of rivet holes 1 3/16 Whether punched or drilled Dr. Pitch of rivets 2.547, 2.513 Lap of plating 4" Per centage of strength of joint Rivets 66.8 Plates 67.9 Working pressure of shell by rules 120 Thickness of shell crown plates 3/4 Radius of do. 6' 2" No. of stays to do. 6 Diameter of stays 1 3/4 Diameter of furnace—Top 5' Bottom 5' 3 3/4 Length of furnace 6' 10 7/8 Thickness of furnace side plates 3/8 Description of joint Welded Working pressure of furnace by rules 128 Thickness of Ogee ring Working pressure of Ogee ring by rules Thickness of furnace crown plates 5/8 Radius of do. 6' 2" Stayed by 6-1 3/4 Stay Diameter of uptake 12 1/2 Thickness of uptake plates 5/8 Thickness of tube plates front back Mean pitch of stay tubes in nest Pitch in outer vertical rows  
 Diameter of tube holes FRONT stay plain BACK stay plain Working pressure of tube plates by rules Tubes: Material Steel  
 External diameter stay plain 12 1/2 Thickness stay plain 3/8 No. of threads per inch Pitch of tubes  
 Working pressure by rules 120 Manhole compensation; Size of opening in shell plate 19 1/2 x 15 1/2 Section of compensating ring 6 1/2 x 1 1/8 No. of rivets and diameter of rivet holes 52 - 1 3/16 Outer row pitch at ends

The foregoing is a correct description,  
 Per Pro ALEX ANDERSON & SONS, LTD.  
 J. W. C. Fleming Manufacturer

Dates of Survey while building During progress of work in shops - 1941 Sep.: 2. 10. 22 Oct.: 1. 14. 16. 20. 30 Nov.: 4 Drawing No. 1/3. 241  
 During erection on board vessel - -  
 Total No. of visits 9 Is the approved plan of boiler forwarded herewith App: 11-9-41

**GENERAL REMARKS** (State quality of workmanship, opinions as to class, &c.) This boiler has been constructed under Special Survey in accordance with the Society's Rules and the approved Plan. The material and workmanship are good. The boiler was made to the order of Messrs Babcock & Wilcox Ltd and intended for Messrs R Dunstan Ltd, Thorne, No 379.

Survey Fee ... £ 4 : 4 : When applied for 11 NOV 1941  
 Travelling Expenses (if any) £ : : When received

Committee's Minute GLASGOW 11 NOV 1941

Assigned Keeferned

TUE 19 MAY 1942

Engineer Surveyor to Lloyd's Register of Shipping.

Hull 7/8/42

Lloyd's Register Foundation

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