

# REPORT ON BOILERS.

No. 57900  
4 FEB 1937

Received at London Office

Date of writing Report 11-2-37 When handed in at Local Office 3. 2. 1937 Port of Glasgow

No. in Survey held at Glydebank Date, First Survey Last Survey 10-2-1937  
Reg. Book. on the Twin Screw Fr. V. "Sussex" (Number of Visits) Tons { Gross  
Net

Master Built at Glydebank By whom built John Brown & Co. Ltd. When built 1937  
Boilers made at Glydebank By whom made Do When made 1937  
Owners P.O. S. N. Co. Ltd. Port belonging to London

VERTICAL DONKEY BOILERS No. 2 Description Clarkson Manufacturers of steel Gt. Brit. & I. Co. Ltd.  
Made at Glydebank By whom made John Brown & Co. Ltd. When made 1937 Where fixed Weather & Working pressure 120  
tested by hydraulic pressure to 230 Date of test 7-12-36 No. of Certificate 19861 Fire grate area Description of safety valves S. L. H. I.  
No. of safety valves 2 Area of each 5.411 Pressure to which they are adjusted 120 If fitted with easing gear Yes If steam from main boilers can enter the donkey boiler Diameter of donkey boiler 8'-6" Length 25'-0" Material of shell plates 8 Thickness 5/8"  
Range of tensile strength 28-32 Description of riveting long. seams J. R. I. B. S. Diameter of rivet holes 7/8" Whether punched or drilled drilled Pitch of rivets 3 1/4" Bolt shape 9" dk Lap of plating 1/6 Per centage of strength of joint Rivets 89 Plates 73 Working pressure of shell by rules 130 Thickness of shell crown plates 1" Radius of do. 7'-0" No. of stays to do. 40 Diameter of stays Diameter of furnace—Top 5'-6" Bottom 5'-6" Length of furnace 15'-11 3/4" Thickness of furnace side plates 1 1/16" Description of joint welded Working pressure of furnace by rules 212 Thickness of Ogee ring 1 3/16" Working pressure of Ogee ring by rules 120 Thickness of furnace crown plates 7/8" Radius of do. 5'-0" Stayed by Uptake Diameter of uptake 40" Thickness of uptake plates 3/16" Thickness of tube plates 7" Cylindrical tube plate joint E. W. welded T. S. 26-20  
Diameter of tube holes FRONT stay 4" BACK stay 4" Working pressure of tube plates by rules Tubes: Material 8 3" Timber type  
External diameter stay 4" Thickness stay 9 W. C. No. of threads per inch Pitch of tubes 4 1/8 V.P. 6834 H.P.  
Working pressure by rules 180 Manhole compensation: Size of opening in shell plate 16" x 12" Section of compensating ring 5 3/8" x 1 1/16" No. of rivets and diameter of rivet holes 40-1 1/16" Outer row pitch at ends 3.4"

John Brown & Co. Ltd. description,  
Manufacturer.  
Drawing No. 3478

Dates of Survey while building { During progress of work in shops - - }  
{ During erection on board vessel - - }  
Total No. of visits SEE ACCOMPANYING MACHINERY REPORT.  
Is the approved plan of boiler forwarded herewith No  
Sent with "Essex" Report Gcs N° 57690

GENERAL REMARKS (State quality of workmanship, opinions as to class, &c.) These boilers have been built under special survey in accordance with the approved plan and the Society's Rules and requirements, the materials and workmanship are good, they have been securely fitted on board, and their safety valves adjusted under steam.

3/2/37

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

Committee's Minute FRI 25 JUN 1937  
Assigned SEE ACCOMPANYING MACHINERY REPORT.

See the Lloyd's Register of Shipping  
JUL 6 JUL 1937  
Lloyd's Register of Shipping  
Rpt. 57900  
002947-002955-0267