

27 SEP 1930

Bel 10,468

# REPORT ON BOILERS.

No. 50294

Received at London Office 9 APR 1930

30 Date of writing Report 19 When handed in at Local Office 4 4 1930 Port of GLASGOW  
No. in Survey held at Annan Date, First Survey 19. 12. 29 Last Survey 28<sup>th</sup> March 1930  
Reg. Book. 86460 on the Boiler No. 11550 ✓ STEEL TWIN SC. SILVER SANDAL (Number of Visits 10) Gross Tons Net  
Master Built at BELFAST By whom built HARLAND & WOLFF LTD. When built 1930  
Boilers made at Annan By whom made Messrs Cochran & Co. Annan L<sup>d</sup> When made 1930  
Owners SILVER LINE CO (STANLEY & JOHN THOMPSON L<sup>d</sup> MGRS.) Port belonging to LONDON

**VERTICAL DONKEY BOILER**— No. One Description Vertical Manufacturers of steel D. Colville & Sons L<sup>d</sup>  
Made at Annan By whom made Cochran & Co. Annan L<sup>d</sup> When made 1930 Where fixed MOTOR ROOM Working pressure 150 ✓  
tested by hydraulic pressure to 275 Date of test 28-3-30 No. of Certificate 18654 Fire grate area Description of safety valves Enclosed spring  
No. of safety valves 2 Area of each 4.90 Pressure to which they are adjusted 150 lb If fitted with easing gear Yes If steam from main boilers can enter the donkey boiler No Diameter of donkey boiler 7'-6" Length 18'-9" Material of shell plates Steel Thickness 25/32, 3/32, 25/32  
Range of tensile strength 28-32 Description of riveting long. seams D.R. Lap ✓ Diameter of rivet holes 13/16" Whether punched or drilled drilled Pitch of rivets 3'-6", 3'-5 1/2", 3'-4 1/2" Lap of plating 5'-3 1/4" Per centage of strength of joint Rivets 64.5 Working pressure of shell by plates 65.4  
rules 158.8 Thickness of shell crown plates 1/8", 23/32 Radius of do. 3'-9" No. of stays to do. ✓ Diameter of stays Diameter of furnace—Top Bottom 6'-6" Length of furnace Thickness of furnace side plates Description of joint Working pressure of furnace by rules 155 Thickness of Ogee ring 1/8" Working pressure of Ogee ring by rules 158.8 Thickness of furnace crown plates 23/32 Radius of do. 3'-3" Stayed by Hemisphere Diameter of uptake 21 1/2" x 25" ✓ Thickness of uptake plates 9/16" Thickness of tube plates front 1/32" back 1/4" Mean pitch of stay tubes in nest 12-17" Pitch in outer vertical rows 7.874  
Diameter of tube holes FRONT stay 2 1/16" BACK stay 2 1/2" Working pressure of tube plates by rules 152.5 Tubes: Material Woot Iron  
External diameter stay 2 1/2" Thickness plain 29/64 No. of threads per inch 9 Pitch of tubes 39/16" x 3.937 ✓  
Working pressure by rules 175 ✓ Manhole compensation: Size of opening in shell plate 16" x 12" Section of compensating ring 6 1/2" x 1 7/32" No. of rivets and diameter of rivet holes 36 off. 1 3/16" Outer row pitch at ends 3.96" ✓

The foregoing is a correct description,  
FOR COCHRAN & CO., ANNAN, LIMITED  
Walter Deattie Manufacturer.

Works Manager.

Dates of Survey while building During progress of work in shops- 19 29 Dec 19 (1930) Jan 10 24 31 Feb 14 25  
During erection on board vessel - - Mar 3 12 20 28  
Total No. of visits 10

Drawing No. 17331

Is the approved plan of boiler forwarded herewith Yes

**GENERAL REMARKS** (State quality of workmanship, opinions as to class, &c.) This boiler has been built under survey, in accordance with the Rules and approved plan.

The materials and workmanship are good.

This boiler has been built to the order of Messrs Harland & Wolff L<sup>d</sup> and is intended for their No. 885.

This boiler has been efficiently fastened on a seat on the tank top at the Starboard forward side of the motor room. The safety valves were adjusted under steam to 150 lbs. The boiler is oil fired. Accumulation did not exceed 5 lbs.

R Lee Annan  
Belfast.

Survey Fee ... £ 4 : 4 :  
Travelling Expenses (if any) £ : :  
When applied for 19  
When received 19

MONTHLY ACCOUNT

Committee's Minute GLASGOW 8- APR 1930  
Assigned TRANSMIT TO LONDON

A. Campbell  
Engineer Surveyor to Lloyd's Register of Shipping.

FRI. 3 OCT 1930

Lloyd's Register  
Foundation

002477-002484-0071