

REPORT ON BOILERS.

No. 56250
23 OCT 1935

Received at London Office

Date of writing Report 3-10-35 When handed in at Local Office 21-10-35 Port of Glasgow
 No. in Survey held at Renfrew & Birkhead Date, First Survey 23-8-35 Last Survey 4-10-35
 Reg. Book. on the Boiler No 73/4634 & 5, for S. S. Dunedin Star (Number of Visits 4) (Gross Tons 1936)
 Master Renfrew Built at Birkhead By whom built Cammell Laird & Co Ltd When built 1936
 Boilers made at Renfrew By whom made Babcock & Wilcox Ltd. When made 1935
 Owners The Blue Star Line Ltd Port belonging to London

EXHAUST GAS
 VERTICAL ~~DONKEY~~ BOILERS No. 2. Description CLARKSON. Manufacturers of steel Colville & Son
 Made at Renfrew By whom made Babcock & Wilcox Ltd When made 1935 Where fixed Shell Room Working pressure 100 lb
 Tested by hydraulic pressure to 200 lb Date of test 21-9-35 No. of Certificate 19603 Fire grate area ✓ Description of safety valves Spring loaded
 No. of safety valves 2 Area of each 2.4 sq ft Pressure to which they are adjusted 100 lb If fitted with easing gear ✓ If steam from main boilers can enter the donkey boiler ✓
 Range of tensile strength 28/32 Tons Description of riveting long. seams DR-DBS Diameter of rivet holes 25/32" Whether punched or drilled drilled Pitch of rivets 2 7/8" Lap of plating ✓ Per centage of strength of joint 126.4 Working pressure of shell by rules 72.83
 Thickness of shell crown plates 11/16" Radius of do. 5'-6" No. of stays to do. ✓ Diameter of stays ✓ Diameter of furnace—Top 25" Bottom 25" Length of furnace 11' 13/16" Thickness of furnace side plates ✓ Description of joint ✓ Working pressure of furnace by rules 113 lb Thickness of Ogee ring ✓ Working pressure of Ogee ring by rules over 100 lb Thickness of TUBE PLATE crown plates 7/8" Radius of do. 3'-0" Stayed by FLANGED TO TUBE & UPTAKE Diameter of uptake 1'-7 1/16" Thickness of uptake plates 17/32" Thickness of tube plate front 25/32" back 3/32" Mean pitch of stay tubes in nest ✓ Pitch in outer vertical rows ✓
 THIMBLE Diameter of tube holes FRONT 2 3/4" BACK 2 1/4" Working pressure of tube plates by rules 181 lb Tubes: Material Steel
 External diameter 2 3/4" Thickness 9 swg No. of threads per inch ✓ Pitch of tubes 6.417" VERTICAL (MEAN)
 Working pressure by rules 215 lb Manhole compensation: Size of opening in shell plate 16" x 12" Section of compensating ring 4 3/4" x 13/16" No. of rivets and diameter of rivet holes 40 - 13/16" Outer row pitch at ends ✓

Heating Surface 3000 sq ft

The foregoing is a correct description.

Babcock & Wilcox, Ltd. Manufacturer.
for J. J. GrahamDrawing No. 4/1201

Dates of Survey while building
 During progress of work in shops 1935 Aug. 23 Sep 13 21 Oct. 4
 During erection on board vessel ✓
 Total No. of visits 4

Is the approved plan of boiler forwarded herewith Yes

GENERAL REMARKS (State quality of workmanship, opinions as to class, &c.)

These boilers have been built under Special Survey, to approved plans, in accordance with the Society's Rules. Materials and workmanship are good. They are intended for M^{rs} Cammell Laird & Co No 1009.

JH 21/10/35.

These boilers have been satisfactorily installed on board and examined under steam.

J. J. Millon.

Survey Fee 2 Boilers £ 12/12/0
 Travelling Expenses (if any) £ : :

When applied for 22 OCT 1935
 When received 24 OCT 1935

H. Sutherland.
 Engineer Surveyor to Lloyd's Register of Shipping.

Committee's Minute GLASGOW 22 OCT 1935Assigned TRANSMIT TO LONDONLloyd's Register
Foundation

W1164-0161