

REPORT ON BOILERS.

No. 60187
SEP 15 1938

Date of writing Report 19 When handed in at Local Office 12.9.38 Port of Glasgow
No. in Survey held at Annan Date, First Survey 2.6.38 Last Survey 1-9-1938
Reg. Book. on the (Number of Visits 12) Gross Tons Net
Master Built at Belfast By whom built Harland & Wolff Ltd (N°1012) When built 1938
Boilers made at Annan By whom made Lochan & Co Annan Ltd (N°14194) When made 1938
Owners Union Castle Mail Steamship Co Ltd Port belonging to London

VERTICAL DONKEY BOILER No. one Description Lochan Manufacturers of steel Steel Co. of Scotland Ltd
Made at By whom made When made Where fixed Working pressure 100
tested by hydraulic pressure to 200 Date of test 1-9-38 No. of Certificate 20257 Fire grate area 7.50 Description of safety valves Enclined spring
No. of safety valves 2 Area of each 3.145 "1.765" Pressure to which they are adjusted If fitted with easing gear yes If steam from main boilers can enter the donkey boiler
Diameter of donkey boiler 3'-9" Length 10'-0" Material of shell plates steel Thickness 3/8" 13/32"
Range of tensile strength 28-32 tons Description of riveting long. seams DR Lap Diameter of rivet holes 23/32" Whether punched or drilled drilled Pitch of rivets 2.23". 2.23". 2.36" Lap of plating 3 3/4" Per centage of strength of joint Rivets 75.3 Working pressure of shell by rules 145 Thickness of shell crown plates 1/2" Radius of do. 3'-2" No. of stays to do. none Diameter of stays - Diameter of furnace—Top 3'-1" Bottom 3'-3 7/8" Length of furnace 18" Thickness of furnace side plates 1/2" Description of joint electric weld Working pressure of furnace by rules 179.2 Thickness of Ogee ring Working pressure of Ogee ring by rules 119 Thickness of furnace crown plates 1/2" Radius of do. 23" Stayed by hemisphere Diameter of uptake 8 1/2" x 13 3/4" Thickness of uptake plates 1/2" Thickness of tube plates front 1 1/8" back 1 1/32" Mean pitch of stay tubes in nest 8.84 Pitch in outer vertical rows 7 7/8"
Diameter of tube holes FRONT stay 2 1/8" plain 2 9/16" BACK stay 2 1/2" plain 2 1/2" Working pressure of tube plates by rules F.M. 6. B. 12.4 Tubes: Material Steel
External diameter stay 2 1/2" plain 2 1/2" Thickness stay 10 w.s. plain 10 w.s. No. of threads per inch 9 Pitch of tubes 3 9/16" x 3 1/2"
Working pressure by rules 175 Manhole compensation: Size of opening in shell plate 16 1/2" x 12" Section of compensating ring 5 1/4" x 3/4" No. of rivets and diameter of rivet holes 32 @ 23/32" Outer row pitch at ends 4 3/8"

The foregoing is a correct description.
FOR COCHRAN & CO., ANNAN, 1004
T. Foster Manufacturer.

Dates of Survey while building During progress of work in shops - 1938 June: 2.9.15. 20.30 July: 7.13 Aug: 4.11.19 Drawing No. 23371
During erection on board vessel - 26 Sep: 1
Total No. of visits 12
Is the approved plan of boiler forwarded herewith yes
With Gls Rpt N° on boiler N° 14195

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 Harland & Wolff Ltd Belfast.
This boiler has been installed & fastened on a seat on the tank top at the forward end of the engine room. The safety valves have been adjusted under steam. The accumulation test was satisfactory. In my opinion the boiler is eligible for use on a classed vessel.

Charles J. Hunter
Belfast
23/2/39

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

MONTHLY ACCOUNT

Committee's Minute GLASGOW 14 SEP 1938
Assigned TRANSMIT TO LONDON

Sh Davis.
Engineer Surveyor to Lloyd's Register of Shipping.
TUE 28 FEB 1939

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