

21 APR 1928

Bel 9954

REPORT ON BOILERS.

No. 47534

1 FEB 1928

Date of writing Report 19 25 19 28 When handed in at Local Office 25 19 28 Port of Glasgow
 Received at London Office
 No. in Survey held at Annan Date, First Survey 16 12 27 Last Survey 20 1 19 28
 Reg. Book. 41499 on the BOILER No 10426 (Number of Visits 6) (Gross Tons) Net
 Master Built at Belfast By whom built Harland & Wolff Ltd. When built 1928
 Boilers made at Annan By whom made Messrs Cochran & Co Annan Ltd When made 1928
 Owners Kingline Ltd (Dodd, Thomson & Co Ltd) Port belonging to London

VERTICAL DONKEY BOILER— No. ONE Description VERTICAL Manufacturers of steel David Colville & Sons.
 Made at Annan By whom made Cochran & Co Annan Ltd When made 1928 Where fixed Engine Room Working pressure 100 lbs
 tested by hydraulic pressure to 200 lbs Date of test 20/1/28 No. of Certificate 7744 Fire grate area 75 sq Description of safety valves Spring-loaded
 No. of safety valves 2 Area of each 1.77 sq Pressure to which they are adjusted 100 lbs If fitted with easing gear Yes If steam from main boilers can enter the donkey boiler
 Diameter of donkey boiler 3'-9" Length 16'-0" Material of shell plates Steel Thickness 3/8", 1/2", 3/8"
 Range of tensile strength 28 3/2 Tons Description of riveting long. seams S.R. Lap Diameter of rivet holes 23/32" Whether punched or drilled Sillad.
 Pitch of rivets 2 1/4", 2.239", 2.292" Lap of plating 3 3/4" Per centage of strength of joint Rivets 777 Working pressure of shell by rules 142.5 lbs. Plates 66.4
 Thickness of shell crown plates 15/32" Radius of do. 3'-2" No. of stays to do. Diameter of stays Diameter of furnace—Top 3'-0" Bottom 3'-3 1/8" Length of furnace 9'-10 1/8" Thickness of furnace side plates 15/32" Description of joint S.R. Lap Working pressure of furnace by rules 174.2 lbs. Thickness of Ogee ring Working pressure of Ogee ring by rules 177.5 lbs. Thickness of furnace crown plates 1/2" Radius of do. 23" Stayed by Lewis' plate Diameter of uptake 8 1/2" x 13 3/4" Thickness of uptake plates 1/2" Thickness of tube plates front 3/32" back 1/2" Mean pitch of stay tubes in nest 8.84" Pitch in outer vertical rows 7 1/2"
 Diameter of tube holes FRONT stay 2 1/4" plain 2 1/4" BACK stay 2 1/4" plain 2 1/4" Working pressure of tube plates by rules 106 lbs. Tubes: Material Best Iron
 External diameter stay 2 1/2" plain 2 1/2" Thickness stay 1/32" plain 1/32" No. of threads per inch 9 Pitch of tubes 3 1/2" x 3 1/8"
 Working pressure by rules 125 lbs. Manhole compensation: Size of opening in shell plate 14 x 10" Section of compensating ring 4 x 3 7/8" No. of rivets and diameter of rivet holes 32 @ 3/32" Outer row pitch at ends 12 1/2"

The foregoing is a correct description.
 H.E. Goodham Manufacturer.

Dates of Survey while building During progress of work in shops - 1927 Dec 16-20-23 (1928) Jan 6-12-20 Drawing No. 15696
 During erection on board vessel - -
 Total No. of visits 6
 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.
 Materials and workmanship Good
 This boiler is to the order of Messrs Harland & Wolff of Belfast and intended for their Ship No. 762. For classification.

This boiler was efficiently installed & fastened on the tank top at the forward starboard side of Engine Room. It has two spring load safety valves each of 1.77 sq area, adjusted to lift at 100 lbs and fitted with easing gear. The adjusting washers are 1/2" P.S.
 R. E. Amess
 Belfast. 17.4.28

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

MONTHLY ACCOUNT

Committee's Minute GLASGOW 31 JAN 1928

Assigned TRANSMIT TO LONDON

See other Bel. 28. 9954
 Lloyd's Register Foundation
 010033 - 010042 - 0108