

REPORT ON BOILERS.

No. 47801

Received at London Office -4 APR 1928

Date of writing Report *WMM* 19 When handed in at Local Office *2-4-28* Port of *Glasgow*
 No. in Survey held at *Annan* Date, First Survey *10 Feb. 1928* Last Survey *30/3/1928*
 Reg. Book. *41530* on the *BOILER No 10429* "KING WILLIAM" (Number of Visits *7*) Tons { Gross *5227*
 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 *King Line Ltd. (Add, Thomson & Co. Ltd.)* Port belonging to *London*

VERTICAL DONKEY BOILER— No. *ONE* Description *VERTICAL* Manufacturers of steel *D. G. Shullie & Sons Ltd.*
 Made at *Annan* By whom made *Cochran & Co Annan Ltd* When made *1928* Where fixed *motor room* Working pressure *100 lbs*
 tested by hydraulic pressure *200 lbs* Date of test *30/3/28* No. of Certificate *17844* Fire grate area *7.5 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 *10'-0"* Material of shell plates *Steel* Thickness *3/8", 1/2", 3/8"*
 Range of tensile strength *20/32 Tns* Description of riveting long. seams *D.R. Lap* Diameter of rivet holes *23/32"* Whether punched or drilled *Drilled* Pitch of rivets *2.14", 2.239", 2.292"* Lap of plating *3 3/4"* Per centage of strength of joint Rivets *77.7* Plates *66.4* Working pressure of shell by rules *142.5 lbs* Thickness of shell crown plates *1 5/32"* Radius of do. *3'-2"* No. of stays to do. Diameter of stays Diameter of furnace—Top *3'-0"* Bottom *3'-3 3/8"* Length of furnace *2'-10 3/8"* Thickness of furnace side plates *1 5/32"* Description of joint *S.R. Lap & welded seam* Working pressure of furnace by rules *179.2 lbs* Thickness of Ogee ring Working pressure of Ogee ring by rules Thickness of furnace crown plates *1/2"* Radius of do. *23"* Stayed by *Rivets* Diameter of uptake *8 1/2" x 13 3/4"* Thickness of uptake plates *1/2"* Thickness of tube plates front *2 1/2"* back *2"* Mean pitch of stay tubes in nest *8.84"* Pitch in outer vertical rows *7 1/8"*
 Diameter of tube holes FRONT stay *2 1/8"* BACK stay *2 1/8"* Working pressure of tube plates by rules { *106 lbs* Tubes: Material *Woot Iron*
 External diameter stay *2 1/2"* Thickness stay *1 1/32"* No. of threads per inch *9* Pitch of tubes *3 1/2" x 3 9/16"*
 Working pressure by rules *125 lbs* Manhole compensation; Size of opening in shell plate *14" x 10"* Section of compensating ring *9" x 3 1/8"* No. of rivets and diameter of rivet holes *32 @ 2 3/8"* Outer row pitch at ends *3 5/8"*

The foregoing is a correct description,
 For COCHRAN & CO., ANNAN, LIMITED
H.C. Woodham Manufacturer.

Dates of Survey while building { During progress of work in shops— *1928, Feb. 11, 11, 24, Mar. 9, 16, 23, 30.* Drawing No. *15696*
 During erection on board vessel - - -
 Total No. of visits *7* 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 Ltd, Belfast and intended for their ship No. 765. For classification.*
This boiler was efficiently installed & fastened on a stool on the tank top at the fore end of the engine room. It has two spring-loaded safety valves each of 1.77 sq area, adjusted to lift at 100 lbs and fitted with easing gear. The adjusting washers are 7/8" A. 19/32"
R. Lee Annes
Belfast 4.7.28.

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

MONTHLY ACCOUNT

WMM
Lee J. J. (Bel)
 Engineer Surveyor to Lloyd's Register of Shipping.

Committee's Minute **GLASGOW 3 - APL 1928**
 Assigned **TRANSMIT TO LONDON**