

23 MAY 1928

Bel. 9973.

REPORT ON BOILERS.

No. 47629

12 FEB 1928

Date of writing Report 18.2.1928 When handed in at Local Office 18.2.1928 Port of Glasgow
 No. in Survey held at Annan Date, First Survey 16.12.27 Last Survey 16. February 1928
 Reg. Book. 4615 on the BOILER No. 10427 (Number of Visits 9) Tons Gross 5227
 Master Built at Belfast By whom built Harland & Wolff Ltd. When built 1928
 Boiler made at Annan By whom made Cochran & Co. Annan Ltd. When made 1928.
 Owners King Line Ltd. (Dodd, Thomson & Co. Ltd.) Port belonging to London

VERTICAL DONKEY BOILER— No. One Description Vertical Manufacturers of steel D. Doherty & Sons Ltd.
 Made at Annan By whom made Cochran & Co. Annan Ltd. When made 1928 Where fixed Engine Room Working pressure 100 lb
 tested by hydraulic pressure to 200 lb Date of test 16/2/28 No. of Certificate 7781 Fire grate area 7.5 ft Description of safety valves Spring loaded
 No. of safety valves 2 Area of each 1.77 ft² Pressure to which they are adjusted 100 lb 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" + 1/32"
 Range of tensile strength 28/32 Description of riveting long. seams double Diameter of rivet holes 23/32 Whether punched or drilled drilled Pitch of rivets 2 1/4", 2.239", 2.292" Lap of plating 3 3/4" Per centage of strength of joint Rivets 77.7 Working pressure of shell by rules 142.5 lb Plates 66.4
 Thickness of shell crown plates 15/32" Radius of do. 3'2" No. of stays to do. none Diameter of stays
 furnace—Top 3'0" Bottom 3'3 1/8" Length of furnace 2'0 3/8" Thickness of furnace side plates 15/32" Description of joint welded Working pressure of furnace by rules 160.1 lb Thickness of Ogee ring Working pressure of Ogee ring by rules Thickness of furnace crown plates 1/2" Radius of do. 23" Stayed by Radius Diameter of uptake 8 1/2" x 13 3/4" Thickness of uptake plates 1/2" Thickness of tube plates front 2 1/16" back 1/2" Mean pitch of stay tubes in nest 8.84" Pitch in outer vertical rows
 Diameter of tube holes FRONT stay 2 1/16" BACK stay 2 1/2" Working pressure of tube plates by rules FRONT 106 lbs BACK 116 lbs Tubes: Material iron
 External diameter stay 2 1/2" Thickness stay 11/32" No. of threads per inch 9 Pitch of tubes 3 1/6" x 3 1/2"
 Working pressure by rules 125 lb Manhole compensation: Size of opening in shell plate 14" x 10" Section of compensating ring 4 1/2" x 5 1/8" No. of rivets and diameter of rivet holes 32 of 2 3/32" Outer row pitch at ends 3 1/2"

The foregoing is a correct description.

For COCHRAN & CO., ANNAN, LIMITED Manufacturer.

Drawing No. 15696

Dates of Survey
 During progress of work in shops 1927 Dec 16, 20, 23 (1928) Jan 6, 20, 24 Feb 3, 10, 16
 During erection on board vessel
 Total No. of visits 9

copy?
 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, Belfast, intended for use of the King Line Ship. For classification.

This boiler was efficiently installed & fastened on the tank top at fore end of the Engine room. It has two spring-loaded safety valves each 1.77 ft² area, adjusted to lift at 100 lbs & fitted with easing gear, the adjusting washers are 3 9/16" & 7/16"

R. Lee James
 Belfast 10.5.28.

Survey Fee ... £ 4 : 4 :

When applied for 19

Travelling Expenses (if any) £ : :

When received 19

MONTHLY ACCOUNT

Committee's Minute GLASGOW 21 FEB 1928

Assigned TRANSMIT TO LONDON

FRI. 25 MAY 1928

Surveyor to Lloyd's Register of Shipping.

Lloyd's Register Foundation

1070-0208