

10.11.1928

# REPORT ON BOILERS.

No. 47801

Received at London Office - 4 APR 1928

Date of writing Report

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)

Gross 5227

Net 3139

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. Shille & Sons Ltd.

Made at

Annan

By whom made

Cochran & Co. Annan Ltd

When made

1928

Where fixed in/on

Working pressure

100 lbs

tested by hydraulic pressure to

200 lbs

Date of test

30/3/28

No. of Certificate

7844

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 Tens

Description of riveting long. seams

S.R. Lap

Diameter of rivet holes

23/32"

Whether punched or

drilled

Drilled

Pitch of rivets

2-1/4", 2-23/32", 2-29/32"

Lap of plating

3 1/4"

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

1/2"

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

2'-10 1/8"

Thickness of furnace side plates

1/2"

Description of joint

S.R. Lap

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 3/32"

back 1/2"

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"

plain 2 1/8"

BACK

stay 2 1/8"

plain 2 1/8"

Working pressure of tube plates by rules

106 lbs

116 lbs

Tubes: Material

Woot 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

9" x 7 1/8"

No. of rivets and diameter of rivet holes

32 @ 3 1/2"

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. 11/1124 Mar. 9/1623.20.

During erection on

board vessel —

Total No. of visits

7

Drawing No.

15696

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 3/4" A. 1/2"

R. J. James

Belfast 4.7.28.

Survey Fee ... £ 4 : 4 :

When applied for 19

Travelling Expenses (if any) £ : :

When received 19

MONTHLY ACCOUNT

Glenn J. Thomas  
Engineer Surveyor to Lloyd's Register of Shipping.

Committee's Minute GLASGOW 3-APR 1928

Assigned

TRANSMIT TO LONDON

Lloyd's Register Foundation

003275-003281-0096