

## REPORT ON BOILERS.

No. 9606

11 SEP 1926

Date of writing Report

19

When handed in at Local Office

10-9-1926

Port of

Belfast

No. in Survey held at

Belfast

Date, First Survey 10<sup>th</sup> June 1926Last Survey 3<sup>rd</sup> Sept 1926

Reg. Book.

on the Air Receivers for New Steel M/V "DUNKWA"

(Number of Visits 8)

Gross Tons

Net

Master

✓

Built at Dumbarton

By whom built

Messrs M'millan Ltd

When built 1927

Boilers made at

By whom made

When made

Owners Messrs The African Steam Navigation Co.

Port belonging to

Liverpool

## AIR RECEIVERS

## VERTICAL DONKEY BOILER

No. 2

Description

Horizontal riveted

Manufacturers of steel D. Colville &amp; Sons.

Made at Belfast

By whom made

Harland &amp; Wolff.

When made

1926

Where fixed

Motor Room.

Working pressure

356 lbs

Tested by hydraulic pressure to 585 lbs

Date of test 3.9.26

No. of receivers

39

Fire grate area

CAPACITY OF EACH RECEIVER

Description of safety valves 538 cwt.

No. of safety valves

Area of each

Pressure to which they are adjusted

If fitted with casing gear

If steam from main boilers can

Enter the donkey boiler

Dia. of donkey boiler

6'-0 3/8"

Length

2'-0 1/2"

Material of shell plates

Steel

Thickness

1 1/2"

Range of tensile

Strength 28/32

Descrip. of riveting long. seams

T.R.D.B.S.

Dia. of rivet holes

1 1/8"

Whether punched or drilled

drilled

Pitch of rivets

7 1/2"

Width of

16 5/8"

Percentage of strength of joint

Rivets 98.5

Plates 86.6

Working pressure of shell by rules

374 lbs

Thickness of shell

end plates

1 1/2" + 1 1/2"

Built traps

4'-0"

No. of stays to do.

Dia. of stays

Diameter of furnace Top

Bottom

Length of furnace

end parts

Working pressure of furnace by rules

361 lbs

Thickness of furnace crown

plates

Radius of do.

Stayed by

Thickness of furnace plates

Description of joint

Working pressure of furnace by rules

361 lbs

Thickness of furnace crown

plates

Radius of do.

Stayed by

Thickness of water tubes

The foregoing is a correct description,

For HARLAND AND WOLFF, LIMITED

F. E. Hebbel

Manufacturer.

During progress of work in shops - June 10, 17, 28 July 5, 16 Aug 4, 16 Sept 3 = 8

During erection on board vessel -

Total No. of visits

Is the approved plan of Receiver forwarded herewith Yes. ✓

## GENERAL REMARKS

(State quality of workmanship, opinions as to class, &amp;c.)

These air Receivers have been constructed under special survey. The materials & workmanship are sound & good. They were subjected to satisfactory hydraulic tests. They are to be installed on a vessel building in Glasgow.

Air Receivers placed on board, and properly secured in place, safety valves afterwards adjusted under air pressure, to 356 lbs per sq. inch, and found satisfactory. Two 3" dia spring loaded valves.

S. E. Murdoch.

18/8/27

Survey Fee ... £ 8 : 8

When applied for, 10-9-26

Travelling Expenses (if any) £ :

When received, 10-9-26

Committee's Minute GLASGOW 6<sup>th</sup> SEP 1927

Assigned See Glasgow Report N° 46984.

Engineer Surveyor to Lloyd's Register of Shipping.

H. P. Southwell.

Lloyd's Register Foundation

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