

Rpt. 5a.

REPORT ON BOILERS.

Received at London Office

WED. JUN 9 1920

Date of writing Report

191

When handed in at Local Office

5. 6. 1920 Port of Glasgow

No. in Survey held at

Glasgow

Date, First Survey

8-9-19

Last Survey

12. 3. 1920.

Reg. Book.

21414 on the Donkey Boiler No 565 for T.S.S. NARDANA

(Number of Visits 18)

Gross

Tons

Net

Master

Built at

Glasgow

By whom built

Barclay Curle & Co Ltd

When built 1919

Engines made at

Glasgow

By whom made

do

When made 1919

Boilers made at

do

By whom made

do

When made 1920

Registered Horse Power

Owners

British India Steam Navigation Co Ltd

Port belonging to

Glasgow

MULTITUBULAR BOILERS—MAIN, AUXILIARY OR DONKEY.—Manufacturers of Steel do Babcock & Wilcox Ltd

(Letter for record S)

Total Heating Surface of Boilers

1519 #

Is forced draft fitted

No. and Description of

Boilers

one single ended

Working Pressure

110 lb

Tested by hydraulic pressure to 220 lb

Date of test 12. 3. 20

No. of Certificate 15174

Can each boiler be worked separately

—

Area of fire grate in each boiler 44.25 #

No. and Description of

safety valves to each boiler

—

Area of each valve

—

Pressure to which they are adjusted

—

Are they fitted with easing gear

—

In case of donkey boilers, state whether steam from main boilers can enter the donkey boiler

—

Smallest distance between boilers or uptakes and bunkers or woodwork

—

Mean dia. of boilers

12. 6

Length

10. 6

Material of shell plates

Steel

Thickness

1 1/16"

Range of tensile strength 28/32 tons

Are the shell plates welded or flanged

No

Descrip. of riveting: cir. seams do Lap

long. seams Tub. Butt

Diameter of rivet holes in long. seams 7/8"

Pitch of rivets 5 3/8"

Lap of plates or width of butt straps

13 5/8"

Per centages of strength of longitudinal joint

rivets 96.8

Working pressure of shell by

rules 147

Size of manhole in shell

16 x 12

Size of compensating ring

33 x 29 x 3/4"

No. and Description of Furnaces in each

boiler 2 Plain

Material Steel

Outside diameter 3'-10 5/16"

Length of plain part

top 6'-4"

Thickness of plates

crown 2 1/16"

Description of longitudinal joint

Weld

No. of strengthening rings

Working pressure of furnace by the rules 119

Combustion chamber

plates: Material Steel

Thickness: Sides 1/2"

Back 1/2"

Top 1/2"

Bottom 1/6"

Pitch of stays to ditto: Sides 8 x 8

Back 8 x 8 1/6"

Top 8 x 8 1/6 If stays are fitted with nuts or riveted heads

Nuts

Working pressure by rules 127

Material of stays Steel

Diameter at

smallest part 9 1/8"

Area supported by each stay 68 1/2"

Working pressure by rules 112

End plates in steam space: Material Steel

Thickness 7/8"

Pitch of stays 17 1/2 x 17 1/2"

How are stays secured 2 nuts

Working pressure by rules 112

Material of stays Steel

Diameter at smallest part 3.264"

Area supported by each stay 350 #

Working pressure by rules 110

Material of Front plates at bottom Steel

Thickness 1 1/16"

Material of

Lower back plate Steel

Thickness 1 1/16"

Greatest pitch of stays 14"

Working pressure of plate by rules 121

Diameter of tubes 3 1/4"

Pitch of tubes 4 3/8 x 4 1/2"

Material of tube plates Steel

Thickness: Front 1 1/16"

Back 1/6"

Mean pitch of stays 11 1/8"

Pitch across wide

water spaces 14 1/4"

Working pressures by rules 116

Girders to Chamber tops: Material Steel

Depth and thickness of

girder at centre (2) 7 1/2 x 5 1/8"

Length as per rule 31 1/16"

Distance apart 8 7/16"

Number and pitch of Stays in each (3) 8"

Working pressure by rules 110

Superheater or Steam chest: how connected to boiler done

Can the superheater be shut off and the boiler worked

separately

Diameter

Length

Thickness of shell plates

Material

Description of longitudinal joint

Diam. of rivet

holes

Pitch of rivets

Working pressure of shell by rules

Diameter of flue

Material of flue plates

Thickness

If stiffened with rings

Distance between rings

Working pressure by rules

End plates: Thickness

How stayed

Working pressure of end plates

Area of safety valves to superheater

Are they fitted with easing gear

Survey request form

FOR BARCLAY, CURLE & CO., LTD.

The foregoing is a correct description,

No. 2478 attached

John Alexander

Manager

Manufacturer.

Dates of Survey
 During progress of work in shops -- 1919 Sept. 8. 17. Oct. 1. 2. 8. 15. Nov. 4. 11. 19.
 while building -- Dec. 16. 24. 31.
 During erection on board vessel -- 1920 Jan. 13. 26. Feb. 5. 12. 19. Mar. 12.

Is the approved plan of boiler forwarded herewith? Approved
 Plan is with duplicate Boiler fitted SS KODDEA
 Total No. of visits 18.

GENERAL REMARKS

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

This boiler has been built under Special Survey. Materials and workmanship are good. It is not yet decided at which Port boiler will be fitted to the vessel.

Survey Fee

£

5

When applied for

8. 6. 1920

Travelling Expenses (if any) £

When received

27. 7. 1920

as Barclay 2020
 Engineer Surveyor to Lloyd's Register of Shipping.

Committee's Minute

GLASGOW 8 - JUN 1920

Assigned

TRANSMIT TO LONDON

FRI. 27 JUN 1920

FRI. 3 AUG. 1923

WED. 11 JUN 1924

WS25-0175

Lloyd's Register
 Foundation