

Rpt. 5a.

REPORT ON BOILERS

No. 11350.

Received at London Office FRI. 22 SEP. 1922

Date of writing Report

19

When handed in at Local Office

19

Port of Southampton

No. in
Reg. Book.

Survey held at

Portsmouth

Date, First Survey 17th Feb. 1922. Last Survey

19

on the S.S.

"NOBIA"

(Number of Visits)

Gross

Tons

Net

Master

Built at Portsmouth

By whom built

H.M. Dockyard

When built 1922

Engines made at

Portsmouth

By whom made

H.M. Dockyard

when made 1922

Boilers made at

- do -

By whom made

- do -

when made 1922

Registered Horse Power

Owners Anglo Saxon Petroleum Co. Port belonging to

MULTITUBULAR BOILERS—MAIN, AUXILIARY OR DONKEY

Manufacturers of Steel

John Spencer & Sons
& Messrs. Aggott & Co.

(Letter for record

S.)

Total Heating Surface of Boilers

7668^{sq} ft

Is forced draft fitted

Yes

No. and Description of

29-11-21.

Boilers

3 single ended

Working Pressure

180^{lb}

tested by hydraulic pressure to

320

Date of test

23-12-21.

No. of Certificate

361

Can each boiler be worked separately

Yes

Area of fire grate in each boiler

63.3^{sq} ft

No. and Description of

17-1-22.

safety valves to each boiler

2 spring loaded

Area of each valve

9.62^{sq} ft

Pressure to which they are adjusted

180^{lb}

Are they fitted with easing gear

Yes

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

No

Smallest distance between boilers or uptakes and bunkers or woodwork

2'-0"

INT.

diam. of boilers

15'-6"

Length

11'-6"

Material of shell plates

Steel

Thickness

1¹/_{4"}

Range of tensile strength

28-32

Are the shell plates welded or flanged

No

Descrip. of riveting: cir. seams

D.R. Lap

long. seams

T.R. D.B.S.

Diameter of rivet holes in long. seams

1⁵/_{16"}

Pitch of rivets

9⁸/_{16"}

Lap of plates or width of butt straps

19¹/_{2"}

Per centages of strength of longitudinal joint

rivets 88.1

Working pressure of shell by

plate 86.5

rules

181^{lb}

Size of manhole in shell

16" x 12"

Size of compensating ring

Flanged 4"

No. and Description of Furnaces in each

boiler

3

Material Steel

Outside diameter

4'-2³/_{8"}

Length of plain part

top

Thickness of plates

crane } 19¹/_{2"}
bottom } 32

Description of longitudinal joint

welded

No. of strengthening rings

Working pressure of furnace by the rules

188

Combustion chamber

plates: Material

Steel

Thickness: Sides

25¹/_{32"}

Back

25¹/_{32"}

Top

25¹/_{32"}

Bottom

Pitch of stays to ditto: Sides

9" x 8¹/_{4"}

Back

8¹/_{2"} x 8¹/_{4"}

Top

9" x 10⁵/_{8"}

If stays are fitted with nuts or riveted heads riveted

Working pressure by rules

210^{lb}

smallest part

1.79^{sq} ft

Area supported by each stay

74.2^{sq} ft

Working pressure by rules

217

Pitch of stay

20¹/_{2"} x 21¹/_{4"}

How are stays secured

double nuts

Working pressure by rules

191

Area supported by each stay

445^{sq} ft

Working pressure by rules

193

Lower back plate

Steel

Thickness

15¹/_{16"}

Greatest pitch of stays

13⁵/_{8"} x 8¹/_{4"}

Working pressure of plate by rules

237

Pitch of tubes

4" x 3³/_{8"}

Material of tube plates

Steel

Thickness: Front

31¹/_{32"}

Back

3¹/_{4"}

Mean pitch of stays

9⁷/_{8"}

Pitch across wide

water spaces

13⁵/_{8"}

Working pressures by rules

181^{lb}

Girders to Chamber tops: Material

Steel

Depth and thickness of

girder at centre

10" x 7⁷/_{8"} x 2

Length as per rule

2'-11¹/_{2"}

Distance apart

10⁵/_{8"}

Number and pitch of Stays in each

3 @ 9"

Working pressure by rules

187

Superheater or Steam chest: how connected to boiler

Can the superheater be shut off and the boiler worked

separately

Diameter

Length

Thickness of shell plates

Material

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

Are they fitted with easing gear

Working pressure of end plates

Area of safety valves to superheater

The foregoing is a correct description.

Manufacturer.

Dates

During progress of

of Survey

work in shops - -

while

During erection on

building

board vessel - - -

Is the approved plan of boiler forwarded herewith

Yes

Total No. of visits

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

These Boilers have been constructed and fitted on board in accordance with the requirements of the Rules and the approved plans.

Survey Fee

£ 32 2/6

When applied for

3/10/22

Travelling Expenses (if any) £

When received

Rpt 4. 19

Committee's Minute

TUE OCT. 3 1922

Assigned

See Jan Rpt 11350

A. Young (and for A.H. Boyle)
Engineer Surveyor to Lloyd's Register of British and Foreign Shipping.
FRI MAR 2 1923



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