

REPORT ON BOILERS.

No. 30,638

Received at London Office

TUE 6 AUG 1918

Writing Report

When handed in at Local Office

2/8 1918 Port of Hull

Survey held at

Hull

Date, First Survey

21-1-18

Last Survey

31-4-

1918

Book.

on the

steel screw steamer

Edward Bruce (Murray type)

(Number of Flues)

Gross 824

Net 149.

ster

Built at

Gosport

By whom built

Gosport S.B. & R. 602nd

When built 1918

ines made at

Salisbury

By whom made

Campbell Gas Engines Co. Ltd.

When made 1918

ers made at

Hull

By whom made

Chas. D. Holmes & Co. Ltd. (19135)

When made 1918

tered Horse Power

Owners

British Admiralty

Port belonging to

✓

WATER TUBULAR BOILERS—MAIN, AUXILIARY OR DONKEY.

Manufacturers of Steel

J. Spencer & Sons Pri. Talbot St

er for record (S) ✓

Total Heating Surface of Boilers

1440 sq ft

Is forced draft fitted

no

No. and Description of

one single ended

Working Pressure

200 lbs

Tested by hydraulic pressure to

400 lbs

Date of test 4-4-18

of Certificate 3284

Can each boiler be worked separately

✓

Area of fire grate in each boiler

48 sq ft

No. and Description of

valves to each boiler two spring loaded

Area of each valve

4.9 sq in

Pressure to which they are adjusted

200 lbs

they fitted with easing gear

yes

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

✓

least distance between boiler

uptakes and bunkers on

woodwork 1 boiler lagged

dia. of boilers

165"

Length 10'-8"

erial of shell plates steel

Thickness

1 1/8"

Range of tensile strength 28-32

Are the shell plates welded or flanged

no

rip. of riveting: cir. seams double

long. seams

1 1/4"

Diameter of rivet holes in long. seams

1/4"

Pitch of rivets

8 1/2"

of plates or width of butt straps 18"

Per centages of strength of longitudinal joint

85.9

Working pressure of shell by

202.

Size of manhole in shell

16" x 12"

Size of compensating ring

7 x 1 1/2"

No. and Description of Furnaces in each

Three plain

Material

steel

Outside diameter

40

Length of plain part

78 1/2"

Thickness of plates

1 1/8"

ription of longitudinal joint welded

No. of strengthening rings

✓

Working pressure of furnace by the rules

206

Combustion chamber

es: Material steel

Thickness: Sides

3/4"

Back

23/32"

Top

3/4"

Pitch of stays to ditto: Sides

10' x 8"

Back 9 1/2' x 6 1/2"

11' x 8" If stays are fitted with nuts or riveted heads

nuts

Working pressure by rules

208

Material of stays

steel

Area at

least part 2.07

Area supported by each stay

88 sq in

Working pressure by rules

211

End plates in steam space: Material

steel

Thickness

of stays 19' x 17 1/2"

How are stays secured

8 x 4 1/2"

Working pressure by rules

210

Material of stays

steel

Area at smallest part

7.5 sq in

supported by each stay

335 sq in

Working pressure by rules

233

Material of Front plates at bottom

steel

Thickness

1 1/8"

er back plate steel

Thickness

1 1/8"

Greatest pitch of stays

13 1/2' x 9 1/2"

Working pressure of plate by rules

216

Diameter of tubes

of tubes 4 3/8"

Material of tube plates steel

Thickness: Front

1 1/8"

Back

7/8"

Mean pitch of stays

10"

Pitch across wide

spaces 14"

Working pressures by rules

275

Girders to Chamber tops: Material

steel

Depth and thickness of

at centre

11' x 1 1/4"

Length as per rule

36.218

Distance apart

11"

Number and pitch of Stays in each

Three

8"

Working pressure by rules

201

Steam dome: description of joint to shell

✓

% of strength of joint

✓

Thickness of shell plates

✓

Material

✓

Description of longitudinal joint

✓

Diam. of rivet holes

✓

Working pressure of shell by rules

✓

Crown plates

✓

Thickness

✓

How stayed

✓

ERHEATER. Type

✓

Date of Approval of Plan

✓

Tested by Hydraulic Pressure to

✓

of Test

✓

Is a Safety Valve fitted to each Section of the Superheater which can be shut off from the Boiler

✓

Pressure of Safety Valve

✓

Pressure to which each is adjusted

✓

Is Easing Gear fitted

✓

The foregoing is a correct description,

for CHARLES D. HOLMES & CO. LTD.

Manufacturer.

During progress of

1918: Jan 21, 25, 30, Feb 4, 12, 27, Mar 1, 6, 8, 11, 12

work in shops

13, 16, 20, 22, 25, 28, Apr 4, 22, May 28, Jun 6, 11, 18, 21, 24, 27

During erection on

Jul 4, 11, 12, 17, 22, 27, 31

board vessel

Total No. of visits 33

Is the approved plan of boiler forwarded herewith

yes already sent

Survey Fee

£ 7-0-6

When applied for

2/8

1918

Travelling Expenses (if any)

£

When received

30-6-

1918

Committee's Minute

TUE. FEB. 28 1922

Assigned

Not for closing Committee

Engineer Surveyor to Lloyd's Register of Shipping.

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Lloyd's Register

Foundation

TUE. MAR. 7 1922

TUE. 5 SEP. 1922

W309-0153