

REPORT ON BOILERS.

Received at London Office

WED. MAY 5-1915

Mdb. Rpt. No 9281.

No. 67484

MAY 4 1915

Port of

NEWCASTLE-ON-TYNE.

No. in Survey held at

Hebburn

Date, First Survey Dec. 24, 1914 Last Survey Apr 24 1915

eg. Book.

on the

S.S. "Conway Castle"

(Smith's Dock Coy. hme h 204 Tons)

When built 1916

aster

engines made at

Middlesbrough

By whom made

Smith's Dock Coy. Ltd.

When made 1915

boilers made at

Hebburn

By whom made

Palmer's S.S. & C. Coy. Ltd. (802)

When made 1915

registered Horse Power

Owners Castle S. P. & W. Ltd.

Port belonging to Swansea

MULTITUBULAR BOILERS—MAIN, AUXILIARY OR DONKEY.

Manufacturers of Steel J. Spencer Sons

No. and Description of

atter for record S.

Total Heating Surface of Boilers 1619 sq. ft.

Is forced draft fitted to

Date of test 29/4/15

lers One Cylinder mult. Single

Working Pressure 180 lb

Tested by hydraulic pressure to 360 lb

No. and Description of

of Certificate 8483

Can each boiler be worked separately

Area of fire grate in each boiler 50.6 sq. ft.

Pressure to which they are adjusted 185 lbs

ety valves to each boiler

Two direct spring

Area of each valve 4.9 sq. ft.

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

they fitted with easing gear

yes

Mean dia. of boilers 12' 6"

Length 10' 6"

allest distance between boilers or uptakes and bunkers or woodwork

8"

aterial of shell plates

Steel

Thickness 1 1/2"

Range of tensile strength 29 1/2 to 33

Are the shell plates welded or flanged

no

escrip. of riveting: cir. seams

Lap joints

long. seams

Butt straps

Diameter of rivet holes in long. seams

97.7

Working pressure of shell by

up of plates or width of butt straps

17 1/8"

Per centages of strength of longitudinal joint

plate 84.9

No. and Description of Furnaces in each

les 183 lb

Size of manhole in shell

16" x 12"

Size of compensating ring

7" x 1 1/2"

Thickness of plates

49"

escription of longitudinal joint

Weld

No. of strengthening rings

none

Working pressure of furnace by the rules

183 lb

Combustion chamber

lates: Material

Steel

Thickness: Sides

1 1/2"

Back 1 1/2"

Top 1 1/2"

Bottom 1"

Pitch of stays to ditto: Sides

10' 8"

op 9' 9"

If stays are fitted with nuts or riveted heads

none

Working pressure by rules

185 lb

Material of stays

Steel

Diameter at

allest part

2-03

Area supported by each stay

8 1/2"

Working pressure by rules

208 lb

End plates in steam space: Material

Steel

Thickness

Pitch of stays

18 1/2" x 8"

How are stays secured

Butt straps

Working pressure by rules

189 lb

Material of stays

Steel

Diameter at smallest part

Area supported by each stay

330 sq. ft.

Working pressure by rules

190 lb

Material of Front plates at bottom

Steel

Thickness

1 1/2"

Material of

Pitch of tubes

4 1/2" x 4 1/2"

Material of tube plates

Steel

Thickness: Front

1 1/2"

Back

3/4"

Mean pitch of stays

Lower back plate

Steel

Thickness

1 1/2"

Greatest pitch of stays

14 1/2"

Working pressure of plate by rules

216 lb

Diameter of tubes

Pitch of tubes

4 1/2" x 4 1/2"

Material of tube plates

Steel

Thickness: Front

1 1/2"

Back

3/4"

Mean pitch of stays

water spaces

14 1/2"

Working pressures by rules

181 lb

222 lb

Girders to Chamber tops: Material

Steel

Depth and thickness of

girders at centre

8" x 1 1/2"

Length as per rule

32"

Distance apart

9"

Number and pitch of Stays in each

2: 9 1/2"

Working pressure by rules

184 lb

Superheater or Steam chest: how connected to boiler

none

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

Material of flue plates

Thickness

End plates: Thickness

How stayed

holes

Pitch of rivets

Working pressure of shell by rules

Diameter of flue

Material of flue plates

Thickness

End plates: Thickness

How stayed

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,

For

Palmer's Shipbuilding & Iron Co.

Manufacturer.

Is the approved plan of boiler forwarded herewith

Total No. of visits

19

Return for 1915

Yes

Return for 1915

Dates of Survey

During progress of work in shops - - -

Dec 24, Jan 5, 7, 26, Feb 4, 16, 24, Mar 1, 11, 15, 24, 29, 31

Is the approved plan of boiler forwarded herewith

Total No. of visits

19

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

The materials and workmanship are good. This main boiler was built under special survey and on completion was tested as required by the Rules and found tight and sound. It has now been fitted and secured on board the vessel.

Vessel & Machinery building at Middlesbrough: on board the vessel.

Survey Fee

£ 5 : 8 :

When applied for

MAY 4 1915

Travelling Expenses (if any) £

When received

29.6.1915

Lon. Advice to Mdb.

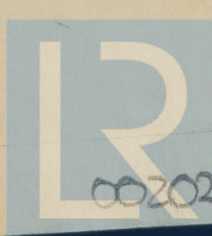
Wm. R. Austin & Co. Engineer Surveyors to Lloyd's Register of British and Foreign Shipping.

Committee's Minute

FRI. 31. MAR. 1916

Assigned

See minute book attached



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