

TUE 6-NOV. 1917

## REPORT ON BOILERS.

No. 30,228

Date of writing Report 29-10-17 191

When handed in at Local Office 3-11-17 191

Received at London Office

No. in Survey held at

Hull

Port of

Hull

Reg. Book.

Date, First Survey

2-7-17

Last Survey

2-11-17

191

on the

steel screw tug "Lewis Roatley"

(Number of Visits)

Gross 324

Net 133

Master

Built at

Lilly

By whom built

Cochran &amp; Sons Ltd

Engines made at

Dundee

By whom made

Cooper &amp; Greig Ltd

When built 1912-11

Boilers made at

Hull

By whom made

C. D. Holmes &amp; Co Ltd (No 21)

When made 1917-11

Registered Horse Power

87

Owners

British Admiralty

When made 1917-11

Port belonging to

## MULTITUBULAR BOILERS—MAIN, AUXILIARY OR DONKEY.

(Letter for record

S

Total Heating Surface of Boilers

1440 sq ft

Is forced draft fitted

no

No. and Description of

Boilers

one single ended

Working Pressure

200

Tested by hydraulic pressure to

400

Date of test 31-8-17

No. of Certificate

3232

Can each boiler be worked separately

yes

Area of fire grate in each boiler

No. and Description of

safety valves to each boiler

two spring loaded

Area of each valve

Pressure to which they are adjusted

205

Are they fitted with easing gear

yes

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

yes

Smallest distance between boilers or uptakes and bunkers or woodwork

8" Blipped

Mean dia. of boilers

165"

Length

10'-8"

Material of shell plates

steel

Thickness

1 5/16"

Range of tensile strength

28-32

Are the shell plates welded or flanged

no

Descrip. of riveting: cir. seams

double

long. seams

Y.R.D.B.1

Diameter of rivet holes in long. seams

1 1/4"

Pitch of rivets

8 5/8"

Lap of plates or width of butt straps

18"

Per centages of strength of longitudinal joint

rivets 85.9

Working pressure of shell by

rules

202

Size of manhole in shell

16" x 12"

Size of compensating ring

7" x 1 5/8"

No. and Description of Furnaces in each

boiler

Three plain

Material

steel

Outside diameter

40"

Length of plain part

top 78 1/2"

Thickness of plates

crown 3 13/16"

bottom 69"

Combustion chamber

Description of longitudinal joint

welded

No. of strengthening rings

Working pressure of furnace by the rules

206

Material

steel

Thickness

Sides 10" x 8"

Back 9 3/4" x 8 3/4"

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

nuts

Working pressure by rules

208

Material of stays

steel

Diameter at

smallest part

2' 0 7/8"

Area supported by each stay

88 sq"

Working pressure by rules

211

End plates in steam space

Material

steel

Thickness

1 7/32"

Pitch of stays

19 7/16"

How are stays secured

9 ft x 4 ft

Working pressure by rules

210

Material of stays

steel

Diameter at smallest part

7' 5"

Area supported by each stay

335 sq"

Working pressure by rules

233

Material of Front plates at bottom

steel

Thickness

15 7/16"

Material of

Lower back plate

steel

Pitch of tubes

4 7/8"

Material of tube plates

steel

Thickness: Front 15 1/16" + 3/4" double

Back 7/8"

Working pressure of plate by rules

216

Diameter of tubes

3 1/2"

Pitch of tubes

4 7/8"

Material of tube plates

steel

Thickness: Front 15 1/16" + 3/4" double

Back 7/8"

Mean pitch of stays

10"

Pitch across wide

water spaces

14"

Working pressures by rules

275

Girders to Chamber tops

Material

steel

Depth and thickness of

girder at centre

11" x 1 3/4"

Length as per rule

36' 2 1/8"

Distance apart

11"

Working pressure by rules

201

Superheater or Steam chest: how connected to boiler

yes

Can the superheater be shut off and the boiler worked

separately

yes

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

yes

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

yes

The foregoing is a correct description,

C. D. Holmes &amp; Co. Ltd. Manufacturer.

Dates of Survey

During progress of

work in shops

During erection on

board vessel

1917: July 2, 6, 13, 18, 27, 31, Aug. 2, 13, 21, 24, 27, Is the approved plan of boiler forwarded herewith

29, 31, Sep. 19, 26, Oct. 4, 3, 11, 16, 17, 19, 20, 24, 26, Nov. 1, 2

Total No. of visits

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

This Boiler has been constructed under special survey in accordance with the approved plan & the rules of this Society, the materials & workmanship are good. The boiler has been fitted & secured on board the vessel & its safety valves adjusted under steam.

Survey Fee

£ 6 : 10 :

When applied for,

191

Travelling Expenses (if any) £

When received,

30-11-1917

Ob 5-12-17  
 Frank D. Sturgeon  
 Engineer Surveyor to Lloyd's Register of British and Foreign Shipping.

Committee's Minute

FRI 9-NOV 1917

Assigned

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