

REPORT ON BOILERS.

No. 29874

SAT. 31 MAR. 1917

Date of writing Report 27-3-17

When handed in at Local Office

27-3-1917 Port of Hull

Received at London Office

No. in Survey held at

Hull

Reg. Book.

1007 on the

steel screw tug "Anglia"

Date, First Survey

4-1-17

Last Survey

21-3-1917

(Number of Visits 15)

Gross 196

Tons Net 74

Master

Built at

North Shields

By whom built

Smith's Dock Co. Ltd

Engines made at

Lundland

By whom made

H. G. & P. Collett

Boilers made at

Hull

By whom made

C. D. Holmes & Co. Ltd

When made 1904-11

Registered Horse Power

52

Owners

Harley & Miller Ltd

When made 1917-3

Port belonging to London

MULTITUBULAR BOILERS - MAIN, ~~AUXILIARY OR DONKEY~~

Manufacturers of Steel

Stewart & Lloyd

(Letter for record S)

Total Heating Surface of Boilers

1270 sq ft

Is forced draft fitted

no

No. and Description of

Boilers

one single ended

Working Pressure

185

Tested by hydraulic pressure to

360

Date of test 13-2-17

No. of Certificate 3192

Can each boiler be worked separately

yes

Area of fire grate in each boiler

33.75 sq ft

No. and Description of

safety valves to each boiler

two spring loaded

Area of each valve

3.97 sq in

Pressure to which they are adjusted

185

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

8" boiler lap

dia. of boilers

147"

Length 10'-3"

Material of shell plates

steel

Thickness

1/4"

Range of tensile strength 28-32

Are the shell plates welded or flanged

no

Descrip. of riveting: cir. seams

double

long. seams

R.R.B.

Diameter of rivet holes in long. seams

1 1/2"

Pitch of rivets

6 3/4"

Lap of plates or width of butt straps

15"

Per centages of strength of longitudinal joint

89.3

Working pressure of shell by

rules

181

Size of manhole in shell

16" x 12"

Size of compensating ring

7" x 1 1/4"

No. and Description of Furnaces in each

boiler

two plain

Material steel

Outside diameter 42"

Length of plain part

top 79"

bottom 69"

Thickness of plates

crown 2 1/2"

bottom 1 3/2"

Description of longitudinal joint

welded

No. of strengthening rings

yes

Working pressure of furnace by the rules

185

Combustion chamber

plates: Material steel

Thickness: Sides 1/16"

Back 2 1/32"

Top 2 1/32"

Bottom 1 1/16"

Pitch of stays to ditto: Sides 10" x 9"

Back 9 1/2" x 8 1/2"

Top 9 1/2" x 8 1/2"

Bottom 9 1/2" x 8 1/2"

Pitch of stays to ditto: Sides 10" x 9"

Back 9 1/2" x 8 1/2"

Top 9 1/2" x 8 1/2"

Top 9 1/2" x 8 1/2"

If stays are fitted with nuts or riveted heads

nuts

Working pressure by rules

181

Material of stays

steel

area

Diameter at

smallest part

4.77"

Pitch of stays 16" x 16"

How are stays secured

R. & W.

Working pressure by rules

185

Material of stays

steel

area

Diameter at

smallest part

4.77"

Area supported by each stay

256 sq in

Working pressure by rules

186

Material of Front plates at bottom

steel

Thickness 7/8"

Material of

Lower back plate

steel

Thickness 29/32"

Greatest pitch of stays

Pitch of tubes 4 3/4"

Material of tube plates

steel

Thickness: Front 7/8"

Back 13/16"

Mean pitch of stays

10.7

Pitch across wide

15"

Material of tube plates

steel

Thickness: Front 7/8"

Back 13/16"

Mean pitch of stays

10.7

Pitch across wide

Water spaces 15"

Material of tube plates

steel

Thickness: Front 7/8"

Back 13/16"

Mean pitch of stays

10.7

Pitch across wide

15"

Material of tube plates

steel

Thickness: Front 7/8"

Back 13/16"

Mean pitch of stays

10.7

Pitch across wide

Girders to Chamber tops: Material steel

Depth and thickness of

Number and pitch of Stays in each

two 9 1/2"

Working pressure by rules

185

Superheater or Steam chest: how connected to boiler

yes

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

Pitch of rivets

Working pressure of shell by rules

Diameter of flue

Material of flue plates

Thickness

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

yes

The foregoing is a correct description,

for CHARLES D. HOLMES & CO. LTD.

Manufacturer.

Dates

During progress of

1917: Jan 4, 9, 12, 16, 18, 23, 25, 30 Feb 1

Is the approved plan of boiler forwarded herewith

yes, please return

Survey

work in shops

7, 9, 13 Mar 16, 20, 21

Total No. of visits

15

GENERAL REMARKS

(State quality of workmanship, opinions as to class, &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 tested as above found sound & tight. It has been properly fitted & secured on board the vessel & the safety valves adjusted under steam. The main steam pipe has been annealed, altered to suit & tested to work. Refitted.

Survey Fee

£ 4 : 5 : -

When applied for,

29-3-1917

Travelling Expenses (if any) £

When received,

31-3-1917

In my opinion the vessel is eligible for the

Grant + To B. 3.17.

Frank L. Stinger

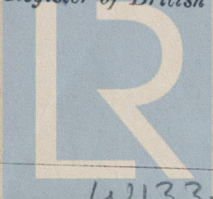
Engineer Surveyor to Lloyd's Register of British and Foreign Shipping.

Committee's Minute

THU. - 5 APR. 1917

Signed

+ N. B. 3.17



Lloyd's Register Foundation

New MSB now fitted on board

It is submitted that
this vessel is eligible for
THE RECORD. + NB 3.17.

GS 34 HS 1270.

J.P.S.
4.4.17.



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Foundation