

## REPORT ON BOILERS

No. 61374

FRI. NOV. 24. 1911

Received at London Office

Date of writing Report

19

When handed in at Local Office

NOV 22 1911

Port of

Newcastle on Tyne

No. in Survey held at

Newcastle on Tyne

Date, First Survey

24<sup>th</sup> Apr. 1911

Last Survey

17<sup>th</sup> Nov. 1911

Reg. Book.

on the

S. S. Goldenfels

(Number of Visits)

Gross 7429

Net 4715

Master

Built at

Walker

By whom built

Swan Hunter &amp; Wigham Richardson Ltd

When built 1911

Engines made at

Walker

By whom made

Swan Hunter &amp; Wigham Richardson Ltd

when made 1911

Boilers made at

Walker

By whom made

Ditto

when made 1911

Registered Horse Power

Owners

Hansa Deutsche Dampfschiff Gesellschaft

Port belonging to

Bremen

MULTITUBULAR BOILERS—~~MAIN, AUXILIARY OR DONKEY.~~—Manufacturers of Steel

J. Spencer &amp; Sons

(Letter for record

2 ✓)

Total Heating Surface of Boilers

1555 ✓

Is forced draft fitted

✓

No. and Description of

Boilers

one S.E. Cyl<sup>l</sup> Mult<sup>l</sup> ✓

Working Pressure

120 lb. ✓

Tested by hydraulic pressure to

240 lb. ✓

Date of test 27.9.11

No. of Certificate

8207 ✓

Can each boiler be worked separately

✓

Area of fire grate in each boiler

46 1/2 ✓

No. and Description of

safety valves to each boiler

2 Spring Patent ✓

Area of each valve

7.07 ✓

Pressure to which they are adjusted

123 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

27 1/2 ✓

Mean dia. of boilers

12' 10" ✓

Length 10' 6" ✓

Material of shell plates

steel ✓

Thickness

25/32 ✓

Range of tensile strength

28 3/4/32 ✓

Are the shell plates welded or flanged

no ✓

Descrip. of riveting: cir. seams

d.r. lap ✓

long. seams

L.r.d. r.s. ✓

Diameter of rivet holes in long. seams

7/8 ✓

Pitch of rivets

6" ✓

Lap of plates or width of butt straps

13 1/2 ✓

Per centages of strength of longitudinal joint

rivets 95.3 ✓

Working pressure of shell by

plate 85.4 ✓

rules

131 lbs ✓

Size of manhole in shell

16 x 12 ✓

Size of compensating ring

flanged saddle 7/8" thick ✓

No. and Description of Furnaces in each

boiler

3-plain ✓

Material

steel ✓

Outside diameter

38 5/8 ✓

Length of plain part

top 86" ✓

Thickness of plates

crown 11/16" ✓

bottom 1" ✓

Description of longitudinal joint

d.r.s. ✓

No. of strengthening rings

✓

Working pressure of furnace by the rules

152 lb. ✓

Combustion chamber

plates: Material

steel ✓

Thickness: Sides

17/32 ✓

Back

17/32 ✓

Top

17/32 ✓

Bottom

3/4 ✓

Pitch of stays to ditto: Sides

7 1/2 x 7 3/4 ✓

Back

7 1/2 x 7 3/4 ✓

area

Top 7 1/2 x 7 ✓

If stays are fitted with nuts or riveted heads

nuts ✓

Working pressure by rules

140 lb. ✓

Material of stays

iron ✓

Diameter at

smallest part

1.45 ✓

Area supported by each stay

62.01 ✓

Working pressure by rules

140 lb. ✓

End plates in steam space: Material

steel ✓

Thickness

1" ✓

Pitch of stays

6 1/2 x 16 3/4 ✓

How are stays secured

d.r.w. ✓

Working pressure by rules

145 lb. ✓

Material of stays

steel ✓

Diameter at smallest part

4.57 ✓

Area supported by each stay

276.375 ✓

Working pressure by rules

147 lb. ✓

Material of Front plates at bottom

steel ✓

Thickness

15/16 ✓

Material of

Lower back plate

steel ✓

Thickness

3/4 ✓

Greatest pitch of stays

13 1/2 x 7 3/4 ✓

Working pressure of plate by rules

145 lb. ✓

Diameter of tubes

3 1/4 ✓

Pitch of tubes

4 1/2 x 4 3/4 ✓

Material of tube plates

steel ✓

Thickness: Front

15/16 ✓

Back

3/4 ✓

Mean pitch of stays

9 x 8 3/4 ✓

Pitch across wide

water spaces

14 1/4 ✓

Working pressures by rules

155 lb. ✓

Girders to Chamber tops: Material

steel ✓

Depth and thickness of

girder at centre

7 1/4 x 1 1/4 ✓

Length as per rule

29 3/4 ✓

Distance apart

7 7/8 ✓

Number and pitch of Stays in each

3-7 ✓

Working pressure by rules

132 lb. ✓

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

✓

Description of longitudinal joint

✓

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

✓

Working pressure of end plates

✓

Area of safety valves to superheater

✓

Are they fitted with easing gear

✓

101 The foregoing is a correct description,

SWAN HUNTER &amp; WIGHAM RICHARDSON, LTD.

Manufacturer.

Dates

of Survey

while

building

During progress of

work in shops - -

During erection on

board vessel - - -

See Machinery Report

Is the approved plan of boiler forwarded herewith

Yes ✓

Total No. of visits

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

This donkey boiler has been constructed under special survey. The workmanship and materials used are both of good quality. The boiler has been satisfactorily fitted on board and the safety valves adjusted under steam.

Survey Fee

...

£ 2-2-0

When applied for

See Machinery Report

Travelling Expenses (if any) £

When received

19

Committee's Minute

TUE. NOV. 28. 1911

Assigned

R. W. Coomber & Wm. Cowie  
Engineer Surveyor to Lloyd's Register of British and Foreign Shipping.



Lloyd's Register  
Foundation

006358-006368-0082