

REPORT ON BOILERS.

No. 34386

Received at London Office

1917 JAN. 1918

Date of writing Report

191

When handed in at Local Office

191

Port of

Glasgow

No. in Survey held at

Glasgow

Date, First Survey

10th Oct. 1916

Last Survey

9th Jan. 1917

Reg. Book.

on the Boiler nos 699-700 for Anderson & Co. Eng. Ltd. No 269 Vessel No. Philotis

(Number of Visits 25)

Gross

Tons

Net

Master

Built at Anderson

By whom built

Anderson & Co. Eng. Ltd. (No 269)

When built 1917

Engines made at

Coatbridge

By whom made

W. Beaman & Co. Ltd (No 471)

When made

1917

Boilers made at

Glasgow

By whom made

A. & W. Dalglish 699/400

When made

1917

Registered Horse Power

Owners

Port belonging to

MULTITUBULAR BOILERS—MAIN, AUXILIARY OR DONKEY.—

Manufacturers of Steel

Steel 60 of Scotland Ltd ✓
to Colville & Sons Ltd

(Letter for record S)

Total Heating Surface of Boilers

2456 ft²

Is forced draft fitted

No. and Description of

Boilers

Two Single ended ✓

Working Pressure

180 lb

Tested by hydraulic pressure to

360 lb

Date of test

8.11.17

No. of Certificate

13976

Can each boiler be worked separately

Yes ✓

Area of fire grate in each boiler

30 ft²

No. and Description of

safety valves to each boiler

1 Pair Spring loaded

Area of each valve

3.94 sq in

Pressure to which they are adjusted

185 lbs

Are they fitted with easing gear

Yes ✓

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

None ✓

Smallest distance between boilers or uptakes and bunkers or woodwork

Inside

Mean dia. of boilers

12' 0"

Length

10' 0"

Material of shell plates

Steel ✓

Thickness

1" ✓

Range of tensile strength

28/32 tons ✓

Are the shell plates welded or flanged

No ✓

Descrip. of riveting: cir. seams

D. R. ✓

long. seams

TRDBS ✓

Diameter of rivet holes in long. seams

1 1/16"

Pitch of rivets

7 5/8"

Lap of plates or width of butt straps

15 3/4" ✓

Per centages of strength of longitudinal joint

rivets 86.46

Working pressure of shell by

rules

184 lb

Size of manhole in shell

16" x 12" ✓

Size of compensating ring

2" x 2" x 1" ✓

No. and Description of Furnaces in each

boiler

2 Plain ✓

Material

Steel ✓

Outside diameter

3' 6" ✓

Length of plain part

top 74"

Thickness of plates

crown 49"

bottom 64"

Description of longitudinal joint

weld ✓

No. of strengthening rings

1 ✓

Working pressure of furnace by the rules

186 lb

Combustion chamber

plates: Material

Steel ✓

Thickness: Sides

3/32" ✓

Back

5/8" ✓

Top

2 1/32" ✓

Bottom

1 1/16" ✓

Pitch of stays to ditto: Sides

9" x 8 1/2"

Back

8 1/2" x 8 1/2"

Top 9" x 8 1/2"

If stays are fitted with nuts or riveted heads

nuts ✓

Working pressure by rules

184 lb

Material of stays

Steel ✓

Diameter at

smallest part

1 7/8"

Area supported by each stay

764" ✓

Working pressure by rules

211 lb

End plates in steam space: Material

Steel ✓

Thickness

1 1/32"

Pitch of stays

17" x 16" ✓

How are stays secured

100 lb ✓

Working pressure by rules

185 lb

Material of stays

Steel ✓

Diameter at smallest part

4 7/8"

Area supported by each stay

2590" ✓

Working pressure by rules

191 lb

Material of Front plates at bottom

Steel ✓

Thickness

7/8" ✓

Material of

Lower back plate

Steel ✓

Thickness

7/8" ✓

Greatest pitch of stays

14" ✓

Working pressure of plate by rules

180 lb

Diameter of tubes

3 1/2"

Pitch of tubes

4 3/4" ✓

Material of tube plates

Steel ✓

Thickness: Front

7/8" ✓

Back

5/8" ✓

Mean pitch of stays

10' 8"

Pitch across wide

water spaces

14 1/2" ✓

Working pressures by rules

228 lb

Girders to Chamber tops: Material

Steel ✓

Depth and thickness of

girders

at centre

8 1/2" x 1 1/2"

Length as per rule

30' 6" ✓

Distance apart

8 1/2" ✓

Number and pitch of Stays in each

Two

9"

Working pressure by rules

180 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

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

Survey request form

The foregoing is a correct description,

No. 19291 attached

A. & W. Dalglish Manufacturers

Dates

During progress of

work in shops

1916 Oct. 21, Nov. 2, 8, 16, 24, 27, Dec. 7, 14, 19, 1917 Jan. 9, 10

while

During erection on

board vessel

22 Feb. 6, 14, Mar. 1, 2, 23, Apr. 2, 5, 16, 25, May 1, 7, Nov. 7, 9

building

Is the approved plan of boiler forwarded herewith

2 Plans ✓

Total No. of visits

25

GENERAL REMARKS

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

This boiler has been built

under Special Survey, the materials and workmanship are good.

The boiler will be fitted to the Vessel at Glasgow.

The Boilers have now been securely fitted on board & their Safety Valves adjusted under steam. To be charged on

Survey Fee

£ 8 : 0 : 0

When applied for, report

191

Travelling Expenses (if any) £

:

:

When received,

191

Committee's Minute

GLASGOW

8-JAN-1918

Assigned

See Glasgow Machinery Report

attached.

Jas Easthope

Engineer Surveyor to Lloyd's Register of Shipping.

Fred. A. Ferguson

2/1/18

Lloyd's Register
Foundation

008743-008750-0248