

REPORT ON BOILERS.

No. 14217

Received at London Office

18 SEP 1930

Date of fitting Report

16. 9. 30. When handed in at Local Office

16. 9. 30. Port of MIDDLESBROUGH.

No. in Survey held at
Reg. Book

STOCKTON

Date, First Survey

30. Jan/30 Last Survey

16. 9. 30.

on the

M.V. "ASHMORE"

(Number of Visits 21)

Gross 5817

Net 3449

Built at

Wellington Quay

By whom built

Sir W.G. Armstrong Whitworth & Co. Ltd.

Yard No.

1069

When built

1931

Engines made at

Scotswood

By whom made

Armstrong, Whitworth & Co. Ltd.

Engine No.

95

When made

1931

Boilers made at

Scotswood

By whom made

Sir W.G. Armstrong Whitworth & Co. Ltd.

Boiler No.

95

When made

1931

Owners

JACOBSON.

Port belonging to

ARENDAL.

VERTICAL DONKEY BOILER.

Made at

Stockton

By whom made

Riley Bros. (Boilermakers)

Boiler No.

5989

When made

1930

Where fixed

E.R. Flat.

Starboard Side.

Manufacturers of Steel

David Colville & Sons Ltd & W. Beadmore & Sons.

Total Heating Surface of Boiler

150 sq. ft.

Is forced draught fitted

No.

Coal or Oil fired

oil

No. and Description of Boilers

1 Vertical Riley Type

Working pressure

180 lbs.

Tested by hydraulic pressure to

320 lbs.

Date of test

16. 9. 30.

No. of Certificate

6821.

Area of Firegrate in each Boiler

✓

No. and Description of safety valves to each boiler

2. Spring Loaded.

Area of each set of valves per boiler

per rule

1.150"

Pressure to which they are adjusted

180 lbs.

Are they fitted with easing gear

Yes.

State whether steam from main boilers can enter the donkey boiler

✓

Smallest distance between boiler or uptake and bunkers

Is oil fuel carried in the double bottom under boiler

✓

Smallest distance between base of boiler and tank top plating

Is the base of the boiler insulated

✓

Largest internal dia. of boiler

4'-0"

Height

9'-0"

Shell plates: Material

Steel

Tensile strength

29/33

Thickness

1 1/2"

Are the shell plates welded or flanged

No.

Description of riveting: circ. seams

end

D.R.

long. seams

T.R. Lap.

Dia. of rivet holes in

(circ. seams)

end

Pitch of rivets

end

Percentage of strength of circ. seams

plate

end

Longitudinal joint

rivets

combined

E. Jule

75

69.4

83.5

69.7

Working pressure of shell by rules

195 lbs.

Thickness of butt straps

outer

inner

Shell Crown: Whether complete hemisphere, dished partial spherical, or flat

dished

Material

Steel

Tensile strength

26/30

Thickness

27/32

Radius

3'-11 1/2"

Working pressure by rules

181 lbs.

Description of Furnace: Plain, spherical, or dished crown

dished

Material

Steel

Tensile strength

26/30

Thickness

FURNACE 11/16"

CROWN 21/32"

External diameter

top

3'-4"

bottom

3'-4"

Length as per rule

FRONT 13"

BACK 27"

Working pressure by rules

228 lbs.

Pitch of support stays circumferentially

and vertically

Are stays fitted with nuts or riveted over

Diameter of stays over thread

✓

Radius of spherical or dished furnace crown

2'-6"

Working pressure by rule

183 lbs.

Thickness of Ogee Ring

11/16"

Diameter as per rule

D 3'-11 1/2"

a 3'-4"

Working pressure by rule

184 lbs.

Combustion Chamber: Material

Steel

Tensile strength

26/30

Thickness of top plate

21/32

Radius if dished

✓

Working pressure by rule

268 lbs.

Thickness of back plate

11/16"

RADIUS

Diameter if circular

1'-8"

Length as per rule

✓

Pitch of stays

7 1/4" x 9"

Are stays fitted with nuts or riveted over

nuts

Diameter of stays over thread

1 1/2"

Working pressure of back plate by rules

234 lbs.

Tube Plates: Material

front Steel

back Steel

Tensile strength

29/33

Thickness

27/32

Mean pitch of stay tubes in nests

8 1/8"

Comprising shell, Dia. as per rule

front

back

Pitch in outer vertical rows

4 1/2" x 6"

Dia. of tube holes FRONT

stay

2 1/4"

BACK

stay

2"

each alternate tube in outer vertical rows a stay tube

4.4.

Working pressure by rules

front 240 lbs.

back 193

Girders to combustion chamber tops: Material

Steel

Tensile strength

29/32

Depth and thickness of girder at centre

5 1/2" x 7/8" (double).

Length as per rule

15 1/2"

Distance apart

one

No. and pitch of stays in each

one

Working pressure by rule

33 lbs.

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Crown stays: Material none Tensile strength ✓ Diameter ✓ at body of stay, or over threads ✓

No. of threads per inch ✓ Area supported by each stay ✓ Working pressure by rules ✓

Screw stays: Material steel Tensile strength 26/30 Diameter ✓ at turned off part, or over threads 1 1/2" No. of threads per inch 9

Area supported by each stay 61.2 Working pressure by rules 204 lbs. Are the stays drilled at the outer ends no

Tubes: Material iron External diameter ✓ Thickness 10 wgs. 5/16"

No. of threads per inch 9 Pitch of tubes 3" x 3" - 4 1/2" x 3" Working pressure by rules p. 215 lbs. s. 225 lbs.

Manhole Compensation: Size of opening in shell plate 16" x 12" Section of compensating ring 6" x 7/8" No. of rivets and diameter of rivet holes 43 - 29/32 Outer row rivet pitch at ends 4 1/2" Depth of flange if manhole flanged ✓

Uptake: External diameter ✓ Thickness of uptake plate ✓

Cross Tubes: No. ✓ External diameters ✓ Thickness of plates ✓

Have all the requirements of Sections 14 to 22 inclusive for boilers been complied with Yes.

The foregoing is a correct description.

Dates of Survey while building 1930 Jan 30 Feb 5-14-24 Mar 12-28 Apr 16 Jun 3-5 Is the approved plan of boiler forwarded herewith 2. 1. 30
(If not state date of approval.)
During erection on board vessel 12. 16. 23. 24. 1-6 18 Aug 26 29 Sep 3 5: 7. 11 Total No. of visits 21

Is this Boiler a duplicate of a previous case Yes. If so, state Vessel's name and Report No. Slaley 5986. Thal Rpt. 44062.

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

The materials and workmanship are good.

This boiler has been built under special survey in accordance with the Rules and approved Plan. It is being sent to Newcastle.

Note This boiler plan to be found in "BEAULIEU" case.

This boiler has been efficiently installed on board the M.V. "ASHMORE" Messrs Armstrong Whitworth & Co Vessel No 1069. The safety valve were adjusted under steam to the approved working pressure.

L. Pickett.

Survey Fee ... £ 4-4-0 When applied for Monthly
Travelling Expenses (if any) £ : : When received 15

Committee's Minute

Assigned

TUE. 19 APR 1932

See F.B. Rpt.

Engineer Surveyor to Lloyd's Register of Shipping.

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