

REPORT ON BOILERS.

No. 46855

28 MAY 1936

Received at London Office

29 MAY 1936

of writing Report

19

When handed in at Local Office

10

Port of

HULL

in Survey held at

Hull

Date, First Survey

24th Jan. 1936

Last Survey

20th May 1936

Book.

231 on the Steam Trawler "Lord Middleton"

(Number of Visits)

Tons

Gross 264

Net 188

ter

Built at

Selby

By whom built

Cochrane & Sons Ltd

Yard No. 1155

When built 1936

ines made at

Hull

By whom made

Amos & Smith Ltd

Engine No. 647

When made 1936

ers made at

do

By whom made

do

Boiler No. 647

When made 1936

inal Horse Power

112

Owners

Pickering & Haldane's Steam Trawling Co Ltd

Port belonging to

Hull

MULTITUBULAR BOILERS—MAIN, ~~AUXILIARY~~, OR ~~DONKEY~~.

Manufacturers of Steel

Appleby-Frodingham Steel Co Ltd

(Letter for Record "S")

al Heating Surface of Boilers

1960 sq ft

Is forced draught fitted No

Coal or Oil fired Coal

and Description of Boilers

One Single Ended

Working Pressure 210 lbs

tested by hydraulic pressure to

365 lbs

Date of test

8/4/36

No. of Certificate

3937

Can each boiler be worked separately

✓

ea of Firegrate in each Boiler

565 sq ft

No. and Description of safety valves to each boiler

Two Spring loaded

ea of each set of valves per boiler

per Rule 10.9 sq in

as fitted 11.88 sq in

Pressure to which they are adjusted 210 lbs

Are they fitted with easing gear

Yes

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

✓

allest distance between boilers or uptakes and bunkers or woodwork

10"

Is oil fuel carried in the double bottom under boilers

✓

allest distance between shell of boiler and tank top plating

✓

Is the bottom of the boiler insulated

No

argest internal dia. of boilers

14'-9"

Length 10'-9"

Shell plates: Material

Steel

Tensile strength 29/33 Tons

ickness

1 3/8"

Are the shell plates welded or flanged

No

Description of riveting: circ. seams

end D.R.

g. seams

T.R. D.B.S.

Diameter of rivet holes in

circ. seams

1 3/8"

Pitch of rivets

4"

percentage of strength of circ. end seams

plate 65.6

rivets 42.7

Percentage of strength of circ. intermediate seam

plate

✓

percentage of strength of longitudinal joint

plate 85.5

rivets 84.4

combined 87.88

Working pressure of shell by Rules

211 lbs

thickness of butt straps

outer 1 1/2"

inner 1 3/32"

No. and Description of Furnaces in each Boiler

3 Plain Type, with Gurdlay Necks

aterial

Steel

Tensile strength

26/30 Tons

Smallest outside diameter

42.65"

ength of plain part

top 76 1/2"

bottom

Thickness of plates

crown 53/64"

bottom

Description of longitudinal joint

Welded

Dimensions of stiffening rings on furnace or c.c. bottom

✓

Working pressure of furnace by Rules

210 lbs

nd plates in steam space: Material

Steel

Tensile strength

26/30 Tons

Thickness

1 1/4"

Pitch of stays 20" x 19"

ow are stays secured

Double Nuts & Washers

Working pressure by Rules

215 lbs

ube plates: Material

front Steel

back

Tensile strength

26/30 Tons

Thickness

7/8"

lean pitch of stay tubes in nests

11"

Pitch across wide water spaces

14"

Working pressure

front 242 lbs

back 246 lbs

rinders to combustion chamber tops: Material

Steel

Tensile strength

29/33 Tons

Depth and thickness of girder

centre

9 3/4" x 2 @ 7/8"

Length as per Rule

3'-1"

Distance apart

9" Centre, 8 1/2" Wings

No. and pitch of stays

each

3 @ 8"

Working pressure by Rules

211 lbs Centre

224 lbs Wings

Combustion chamber plates: Material

Steel

Tensile strength

26/30 Tons

Thickness: Sides

3/4"

Back

23/32"

Top

23/32"

Bottom

3/4"

Pitch of stays to ditto: Sides

9" x 8"

Back

9 1/2" x 8"

Top

9" x 8"

Are stays fitted with nuts or riveted over

Nuts

Working pressure by Rules

225 lbs (Centre)

(Back)

Front plate at bottom: Material

Steel

Tensile strength

26/30 Tons

Thickness

1"

Lower back plate: Material

Steel

Tensile strength

26/30 Tons

Thickness

29/32"

Pitch of stays at wide water space

14" x 8"

Are stays fitted with nuts or riveted over

Nuts

Working Pressure

260 lbs

Main stays: Material

Steel

Tensile strength

28/32 Tons

Diameter

At body of stay,

3 1/4"

No. of threads per inch

6

Area supported by each stay

380 sq in

Working pressure by Rules

212 lbs

Screw stays: Material

Steel

Tensile strength

26/30 Tons

Diameter

At turned off part,

1 3/4"

No. of threads per inch

9

Area supported by each stay

78.75" (Centre)

(Back)

Working pressure by Rules 230 lbs Are the stays drilled at the outer ends No Margin stays: Diameter { At turned off part, or Over threads 1 7/8"
No. of threads per inch 9 Area supported by each stay 96 sq ins Working pressure by Rules 220 lbs
Tubes: Material Iron External diameter { Plain } 3 1/2" Thickness { 8 M.G. } 5/16" + 3/8" No. of threads per inch 9
Pitch of tubes 5" x 4 3/4" Working pressure by Rules 215 lbs Manhole compensation: Size of opening in
shell plate 16" x 12" Section of compensating ring 2'-3" x 1 3/8" No. of rivets and diameter of rivet holes 13 @ 1 3/8"
Outer row rivet pitch at ends 9 1/2" Depth of flange if manhole flanged ✓ Steam Dome: Material ✓
Tensile strength ✓ Thickness of shell ✓ Description of longitudinal joint ✓
Diameter of rivet holes ✓ Pitch of rivets ✓ Percentage of strength of joint { Plate Rivets ✓
Internal diameter ✓ Working pressure by Rules ✓ Thickness of crown ✓ No. and diameter of
stays ✓ Inner radius of crown ✓ Working pressure by Rules ✓
How connected to shell ✓ Size of doubling plate under dome ✓ Diameter of rivet holes and pitch
of rivets in outer row in dome connection to shell ✓

Type of Superheater ✓ Manufacturers of { Tubes Steel castings ✓
Number of elements ✓ Material of tubes ✓ Internal diameter and thickness of tubes ✓
Material of headers ✓ Tensile strength ✓ Thickness ✓ Can the superheater be shut off and
the boiler be worked separately ✓ Is a safety valve fitted to every part of the superheater which can be shut off from the boiler ✓
Area of each safety valve ✓ Are the safety valves fitted with easing gear ✓ Working pressure as per
Rules ✓ Pressure to which the safety valves are adjusted ✓ Hydraulic test pressure:
tubes ✓, castings ✓ and after assembly in place ✓ Are drain cocks or valves fitted
to free the superheater from water where necessary ✓

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

The foregoing is a correct description,

FOR AMOS & SMITH LTD.

W. E. Brown

Manufacturer.

Dates of Survey { During progress of work in shops - - }
while building { During erection on board vessel - - - }

See Mch Report
Herewith

Are the approved plans of boiler and superheater forwarded herewith yes
(If not state date of approval.)

Total No. of visits 1 ✓

Is this Boiler a duplicate of a previous case No If so, state Vessel's name and Report No. ✓

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

This boiler has been constructed under special survey and in accordance with the approved plans. It has been satisfactory fitted on board, examined under steam, and safety valves adjusted as above.

Survey Fee Charged on Mch Rpt Herewith £ : : When applied for, 19
Travelling Expenses (if any) £ : : When received, 19

A. M. B. Edwards
Engineer Surveyor to Lloyd's Register of Shipping.

Committee's Minute TUE. 9 JUN 1936 FRI. 17 JUL 1936

Assigned

See other Sub JE 46855



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Foundation