

REPORT ON BOILERS.

No. 53287.

Received at London Office

Date of writing Report

19

When handed in at Local Office

19

Port of

Hull

No. in Survey held at

Hull

Date, First Survey

13. 4. 45

Last Survey

1. 1.

1946.

Reg. Book.

(Number of Visits 25.)

Gross 361

Tons Net 139

on the

Steam Trawler "BULBY"

Built at

Beverly

By whom built

Boots Winton & Gemmell L.

Yard No. 756

When built 1946

Engines made at

Hull

By whom made

Charles D Holmes

Engine No. 1714 When made

Boilers made at

Hull

By whom made

Charles D Holmes

Boiler No. 1714 When made

Nominal Horse Power

Owners Boston Deep Sea Fishing & Ice Co L

Port belonging to Huthwood

MULTITUBULAR BOILERS MAIN, AUXILIARY, OR DONKEY.

Manufacturers of Steel

Appley Frodingham Steel Co. L.

(Letter for Record S)

Total Heating Surface of Boilers

1710

Is forced draught fitted

No

Coal or Oil fired

Coal

No. and Description of Boilers

One single end multitubular cylindrical boiler

Working Pressure

210 lb

Tested by hydraulic pressure to

365 lb

Date of test

28/9/45

No. of Certificate

4253

Can each boiler be worked separately

✓

Area of Firegrate in each Boiler

52

No. and Description of safety valves to each boiler

One 2 1/2" D.S. Ordry

Area of each set of valves per boiler

per Rule

9.5

as fitted

9.8

Pressure to which they are adjusted

216 lb

Are they fitted with easing gear

Yes

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

✓

Smallest distance between boilers or uptakes and bunkers or woodwork

12"

Is oil fuel carried in the double bottom under boilers

NONE

Smallest distance between shell of boiler and tank top plating

NONE

Is the bottom of the boiler insulated

NO

Largest internal dia. of boilers

14' 3 1/2"

Length

10' 8"

Shell plates: Material

Steel

Tensile strength

31/35

Thickness

1 1/4"

Are the shell plates welded or flanged

No

Description of riveting: circ. seams

end DR

inter. ✓

long. seams

TR - DBS

Diameter of rivet holes in

circ. seams

1 5/16"

long. seams

1 1/32"

Pitch of rivets

3 3/4"

9 1/2"

Percentage of strength of circ. end seams

plate

65.3

rivets

45.2

Percentage of strength of circ. intermediate seam

plate

85.1

rivets

Percentage of strength of longitudinal joint

plate

85.1

rivets

85.8

combined

87.66

Thickness of butt straps

outer

3 1/32"

inner

1 3/32"

No. and Description of Furnaces in each Boiler

Three Dighton corrugated furnaces

Material

Steel

Tensile strength

26/30

Smallest outside diameter

3' 5 3/4"

Length of plain part

top

Thickness of plates

crown

5/8"

bottom

5/8"

Description of longitudinal joint

lapped

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

None

End plates in steam space: Material

Steel

Tensile strength

26/30

Thickness

1 3/16"

Pitch of stays 1'-7" x 1'-6 1/2"

How are stays secured

Double nuts and washers

Tube plates: Material

front

Steel

back

Tensile strength

26/30

Thickness

15/16"

7/8"

Mean pitch of stay tubes in nests

9 3/4" x 9 3/4"

Pitch across wide water spaces

14"

Girders to combustion chamber tops: Material

Steel

Tensile strength

29/33

Depth and thickness of girder

at centre

10" Two 7/8"

Length as per Rule

2'-8 29/32"

Distance apart

10 1/2"

No. and pitch of stays

in each

Three 8"

Combustion chamber plates: Material

Steel

Tensile strength

26/30

Thickness: Sides

23/32"

Back

23/32"

Top

23/32"

Bottom

25/32"

Pitch of stays to ditto: Sides

9 3/4" x 8 1/2"

Back

9 5/8" x 8 1/8"

Top

10 1/2" x 8"

Are stays fitted with nuts or riveted over

Nuts

Front plate at bottom: Material

Steel

Tensile strength

26/30

Thickness

15/16"

Lower back plate: Material

Steel

Tensile strength

26/30

Thickness

7/8"

Pitch of stays at wide water space

14" x 9 5/8"

Are stays fitted with nuts or riveted over

Nuts

Main stays: Material

Steel

Tensile strength

28/32

Diameter

At body of stay,

3 1/8"

or

Over threads

No. of threads per inch

8

Screw stays: Material

Steel

Tensile strength

26/30

Diameter

At turned off part,

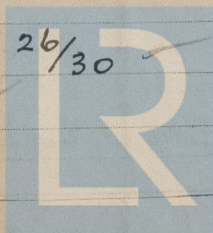
1 3/4"

or

Over threads

No. of threads per inch

10



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Lloyd's Register

010662-010674-0230

Buloy

Are the stays drilled at the outer ends No Margin stays: Diameter { At turned off part, 2" & 2 1/8" Over threads

No. of threads per inch 10

Tubes: Material Seamless External diameter { Plain 3 1/2" Stay 3 1/2" Thickness { 8 WG 7/16 3/8 5/16 No. of threads per inch 9

Pitch of tubes 4 7/8" x 4 7/8" Manhole compensation: Size of opening in shell plate 16" x 12" Section of compensating ring 2' 10 3/8" x 1 1/4" No. of rivets and diameter of rivet holes 61 - 1 1/32"

Outer row rivet pitch at ends 10 5/16" Depth of flange if manhole flanged Bot 3 3/8" Top 3 1/4" Steam Dome: Material Steel

Tensile strength 26/30 Thickness of shell 3/4" Description of longitudinal joint SR

Diameter of rivet holes 1 1/32" Pitch of rivets 2 1/4" Percentage of strength of joint { Plate 54 Rivets 43.8

Internal diameter 2' 9" Thickness of crown 7/8" No. and diameter of stays 2 - 2 1/4" Inner radius of crown ✓

How connected to shell 2R Size of doubling plate under dome 4' 9 1/2" DIA. x 1 1/4" Diameter of rivet holes and pitch of rivets in outer row in dome connection to shell 1 1/32" 3 3/4" pitch.

Type of Superheater NONE Manufacturers of { Tubes Steel forgings 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

Pressure to which the safety valves are adjusted Hydraulic test pressure: tubes forgings and 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 CHARLES D. HOLMES & CO., LTD.
W. R. Evans Manufacturer.

Dates of Survey { During progress of work in shops -- July 13, 26 Aug 17, 19, Sept. 5, 14, 20, Oct. 5, 10, 22, 31. Nov. 9. Are the approved plans of boiler and superheater forwarded herewith 24.4.45. (If not state date of approval.)

while building { During erection on board vessel -- See machinery Rpt. Total No. of visits 25.

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

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

This boiler has been built and installed under Special Survey in accordance with the Society's Rules & Regulations and the Secretary's letters.

The workmanship and materials are good.

Boiler tested by 365 lb hydraulic pressure and afterwards examined under steam, safety valves adjusted as overleaf, accumulation test held, and found satisfactory on completion of all tests.

Survey Fee £ Sample : : When applied for, 19

Travelling Expenses (if any) £ : : When received, 19

W. S. Shivers
Engineer Surveyor to Lloyd's Register of Shipping.

Committee's Minute FRI. 15 FEB 1946

Assigned See F.E. Machy. rpt