

REPORT ON BOILERS.

No. 52203.

Date of writing Report

19

When handed in at Local Office

4 NOV 1943

19

Port of HULL

No. in Survey held at HULL

Date, First Survey

14. 7. 43.

Last Survey

21. 10. 19 43.

g. Book.

(Number of Visits)

Gross 452

Tons Net 144

on the H.M. TRAWLER

ROSEVEAN.

built at BEVERLEY.

By whom built

Cock Walker & Gennell & Co

Yard No. 718. When built 1943

Engines made at HULL

By whom made

Chas. D. Hume & Co

Engine No. 1658. When made

Boilers made at HULL

By whom made

Chas. D. Hume & Co

Boiler No. 1669. When made

Nominal Horse Power

Owners

Admiralty

Port belonging to

MULTITUBULAR BOILERS MAIN, AUXILIARY, OR DONKEY.

Manufacturers of Steel

Steel Company of Scotland & Co

(Letter for Record 5.

Total Heating Surface of Boilers

2650 sq ft

Is forced draught fitted

Yes

Coal or Oil fired

Coal

No. and Description of Boilers

One - S.B.

Working Pressure 200 lbs/sq in

Tested by hydraulic pressure to

350 lb/sq in

Date of test 31-8-43. No. of Certificate 4200.

Can each boiler be worked separately

Area of Firegrate in each Boiler

63 sq ft

No. and Description of safety valves to each boiler 2 - Spring Loaded

Area of each set of valves per boiler

per Rule 15.4 sq in

Pressure to which they are adjusted 200 lbs/sq in

Are they fitted with easing gear

Yes

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

Yes

Smallest distance between boilers or uptakes and bunkers or woodwork

2'-0"

Is oil fuel carried in the double bottom under boilers

No

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'-9 3/8"

Length 11'-6"

Shell plates: Material

Steel

Tensile strength 29/33 tons/sq in

Thickness

1 5/16"

Are the shell plates welded or flanged

No

Description of riveting: circ. seams

end

DR Lap

inter.

None

long. seams

T.R. - D.B.S.

Diameter of rivet holes in

circ. seams 1 3/8"

long. seams 1 3/8"

Pitch of rivets

4"

9 1/2"

Percentage of strength of circ. end seams

plate

65.6%

rivets

44.7%

Percentage of strength of circ. intermediate seam

plate

85.5%

rivets

81.5%

Percentage of strength of longitudinal joint

plate

85.5%

rivets

81.5%

Thickness of butt straps

outer

1 1/2"

No. and Description of Furnaces in each Boiler

3 - cf. Deighton section

Material

Steel

Tensile strength

26/30 tons/sq in

Smallest outside diameter

3'-6 1/16"

Length of plain part

top

1 1/2"

Thickness of plates

top

1 1/32"

Description of longitudinal joint

Weld

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

End plates in steam space: Material

Steel

Tensile strength 26/30 tons/sq in

Thickness

1 1/32"

Pitch of stay 21" x 20" max.

How are stays secured

Nuts inside and out

Tube plates: Material

front

Steel

Tensile strength

26/30 tons/sq in

Thickness

7/8"

back

Steel

do

25/32"

Mean pitch of stay tubes in nests

9 1/16"

Pitch across wide water spaces

13 3/8"

Girders to combustion chamber tops: Material

Steel

Tensile strength 28/32 tons/sq in

Depth and thickness of girder

at centre

8 1/4" x 1 7/8"

Length as per Rule

2'-4 1/32"

Distance apart

10 1/4"

No. and pitch of stays

in each

2 - 9 7/8"

Combustion chamber plates: Material

Steel

Tensile strength

26/30 tons/sq in

Thickness: Sides

25/32"

Back

3/4"

Top

25/32"

Bottom

25/32"

Pitch of stays to ditto: Sides

10 3/4" x 9 7/8"

Back

9 1/4" x 9 7/8"

Top

10 3/4" x 9 7/8"

Are stays fitted with nuts or riveted over

Nuts

Front plate at bottom: Material

Steel

Tensile strength 26/30 tons/sq in

Thickness

7/8"

Lower back plate: Material

Steel

Tensile strength 26/30 tons/sq in

Thickness

7/8"

Pitch of stays at wide water space

14 1/2" x 9 7/8"

Are stays fitted with nuts or riveted over

Nuts

Main stays: Material

Steel

Tensile strength 28/32 tons/sq in

Diameter

At body of stay, or Over threads

3 3/8"

No. of threads per inch

6

Screw stays: Material

Steel

Tensile strength 26/30 tons/sq in

Diameter

At turned off part, or Over threads

1 7/8"

No. of threads per inch

9

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ROSEVEAN

Are the stays drilled at the outer ends

No.

Margin stays: Diameter { At turned off part, or Over threads

2

No. of threads per inch

9

Tubes: Material

Steel

External diameter

Plain 2 3/4 Stay 2 3/4

Thickness { 8. w.g. 5/16 3/8

No. of threads per inch

9

Pitch of tubes

3 7/8 x 3 7/8

Manhole compensation: Size of opening in

shell plate 12" (x 16)

Section of compensating ring 1 7/16 x 20

No. of rivets and diameter of rivet holes 15 - 1 1/2

Outer row rivet pitch at ends

10/8

Depth of flange if manhole flanged

3 1/4

Steam Dome: Material

None

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

Thickness of crown

No. and diameter of

stays

Inner radius of crown

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

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 14, Aug 11, 12, 24, 31. while building { During erection on board vessel -- As on machinery report

Are the approved plans of boiler and superheater forwarded herewith 15.2.43. (If not state date of approval.)

Total No. of visits

Is this Boiler a duplicate of a previous case

Yes

If so, state Vessel's name and Report No.

H.M.T. "GANILLY"

Rpt. ho52147

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

This boiler has been constructed under Special Survey in accordance with the approved Admiralty plans & the Rules. The workmanship and material are good and when subjected to a Hydraulic test of 350 lb/sq in it was found satisfactory in every respect.

The above boiler fitted on board H.M.T. "ROSEVEAN" at Hull, examined under working conditions, safety valves adjusted to 200 lb, accumulation test held and afterwards examined after all tests and found satisfactory. W.S. Shields.

Survey Fee £

When applied for, 19

Travelling Expenses (if any) £

When received, 19

Engineer Surveyor to Lloyd's Register of Shipping.

Committee's Minute

TUES. 16 NOV 1943

Assigned

see minute on J.S. Rpt.



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