

REPORT ON BOILERS.

No. 51286

15 AUG 1941

Received at London Office

Date of writing Report

19

When handed in at Local Office

14 AUG 1941

Port of

HULL

No. in Survey held at
1. Book

Date, First Survey

30.9.40

Last Survey

7.6.41

19

(Number of Visits

Gross 452.
Net 142.

on the STEAM TRAWLER

FLOTTA

built at

SELBY

By whom built

Messrs. Cochrane & Son

Yard No. 1227 When built 1941-6

Engines made at

HULL

By whom made

Messrs. Chas. D. Holmes & Co. Ltd

Engine No. 1574 When made 1941-6

Boilers made at

HULL

By whom made

Messrs. Chas. D. Holmes & Co. Ltd

Boiler No. 1576 When made 1941-6

nominal Horse Power

156

Owners

THE ADMIRALTY

Port belonging to

MULTITUBULAR BOILERS—MAIN, AUXILIARY, OR DONKEY.

Manufacturers of Steel

Messrs. Appleby Frodingham Steel Co. Ltd

(Letter for Record S.

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 lb./sq. in.

Tested by hydraulic pressure to

350 lb./sq. in.

Date of test

31-3-41

No. of Certificate

4095

Can each boiler be worked separately

Yes

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.
as fitted 16.6 sq. in.

Pressure to which they are adjusted

200 lb./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

29/32 ton/sq. in.

Thickness

1 5/16"

Are the shell plates welded or flanged

No

Description of riveting: circ. seams

end D.R. 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
rivets

Percentage of strength of longitudinal joint

plate 85.5%
rivets 88.5%
combined 88.8%

Thickness of butt straps

outer 1 1/8"
inner 1 1/8"

No. and Description of Furnaces in each Boiler

3 of Deighton section

Material

Steel

Tensile strength

26/30 ton/sq. in.

Smallest outside diameter

2'-6 7/8"

Length of plain part

top 19 1/32"
bottom 19 1/32"

Thickness of plates

crown 19 1/32"
bottom 19 1/32"

Description of longitudinal joint

Weld

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

Yes

End plates in steam space: Material

Steel

Tensile strength

26/30 ton/sq. in.

Thickness

1 1/32"

Pitch of stays

21 x 20 man

How are stays secured

Nuts inside & out.

End plates: Material

front Steel
back Steel

Tensile strength

26/30 ton/sq. in.
do.

Thickness

7/8" 25/32"

Lean pitch of stay tubes in nests

9 1/16"

Pitch across wide water spaces

13 5/8"

Girders to combustion chamber tops: Material

Steel

Tensile strength

28/32 ton/sq. in.

Depth and thickness of girder

centre

8 1/4" x 1 7/8"

Length as per Rule

2'-7 15/32"

Distance apart

10 3/4"

No. and pitch of stays

each

2 - 9 7/8"

Combustion chamber plates: Material

Steel

Tensile strength

26/30 ton/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 1/2" 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 ton/sq. in.

Thickness

7/8"

Lower back plate: Material

Steel

Tensile strength

26/30 ton/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 ton/sq. in.

Diameter

At body of stay, 3 1/8"
or Over threads

No. of threads per inch

6

Crew stays: Material

Steel

Tensile strength

26/30 ton/sq. in.

Diameter

At turned off part, 1 7/8"
or Over threads

No. of threads per inch

9

Are the stays drilled at the outer ends

No

Margin stays : Diameter { At turned off part, 2" or Over threads

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" 7/16" No. of threads per inch 9

Pitch of tubes 2 3/8" x 3 3/8"

Manhole compensation: Size of opening

shell plate 16" (x20

Section of compensating ring 1 5/16" x 20"

No. of rivets and diameter of rivet holes 15" @ 1 5/32"

Outer row rivet pitch at ends 10 1/8"

Depth of flange if manhole flanged Bottom 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

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

The foregoing is a correct description,

FOR CHARLES D. HOLMES & CO., LTD.

W.R. Evans

Manufacture

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

See machinery rep

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

Total No. of visits

Is this Boiler a duplicate of a previous case

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 in accordance with the approved Admiralty plans & the Rules.

The Workmanship and materials are good and when subjected to a hydraulic test of 350 lbs / sq in it was found satisfactory in every respect.

Survey Fee £

When applied for,

19

Travelling Expenses (if any) £

When received,

19

Engineer Surveyor to Lloyd's Register of Shipping.

Committee's Minute

TUE. 19 AUG 1941

Assigned

See Incl 7C 51286



© 2020

Lloyd's Register Foundation