

REPORT ON BOILERS.

No. 45495

Received at London Office

18 MAY 1935

Date of writing Report

19

When handed in at Local Office

17 MAY 1935

Port of

HULL

No. in Survey held at
Reg. Book.

Hull

Date, First Survey

11th Feb 1935

Last Survey

15th May 1935

on the

Steel S. K. "Scalby Wyke"

(Number of Visits

Tons

Gross 440.23

Net 170.30

Master

Built at

Selby

By whom built

Bochraue & Sons Ltd.

Yard No.

1138

When built

1935.5

Engines made at

Hull

By whom made

Charles D. Holmes & Co. Ltd.

Engine No.

1477

When made

1935

Boilers made at

Hull

By whom made

Charles D. Holmes & Co. Ltd.

Boiler No.

1477

When made

1935

Nominal Horse Power

114

Owners

West Sock Steam Fishing Co. Ltd.

Port belonging to

Hull

MULTITUBULAR BOILERS—MAIN, AUXILIARY, OR DONKEY.

Manufacturers of Steel

The Steel Company of Scotland Ltd.

(Letter for Record

"S"

Total Heating Surface of Boilers

2030 sq feet

Is forced draught fitted

No.

Coal or Oil fired

Coal

No. and Description of Boilers

One single Ended Return Tube.

Working Pressure

210 #/sq in.

Tested by hydraulic pressure to

365 #/sq in.

Date of test

16.4.35

No. of Certificate

3915

Can each boiler be worked separately

Area of Firegrate in each Boiler

57.5 sq ft

No. and Description of safety valves to each boiler

2 Spring loaded.

Area of each set of valves per boiler

per Rule

11.28 sq in.

Pressure to which they are adjusted

210 #/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

Smallest distance between boilers or uptakes and bunkers or woodwork

10 1/2"

Is oil fuel carried in the double bottom under boilers

Smallest distance between shell of boiler and tank top plating

Is the bottom of the boiler insulated

Largest internal dia. of boilers

177"

Length

10'8"

Shell plates: Material

Steel

Tensile strength

30-34 tons/sq in.

Thickness

1 1/32"

Are the shell plates welded or flanged

Description of riveting: circ. seams

end

3 3/4"

long. seams

I.R. S.S.

Diameter of rivet holes in

circ. seams

long. seams

1 3/8"

Pitch of rivets

3 3/4"

Percentage of strength of circ. end seams

plate

63.40.

rivets

52.10

Percentage of strength of circ. intermediate seam

plate

85.13

rivets

Percentage of strength of longitudinal joint

plate

86.00

rivets

84.30.

Working pressure of shell by Rules

215 #/sq in.

Thickness of butt straps

outer

1 1/32"

inner

1 5/32"

No. and Description of Furnaces in each Boiler

Three plain.

Material

Steel

Tensile strength

26-30 tons/sq in.

Smallest outside diameter

43.5"

Length of plain part

top

72"

bottom

Thickness of plates

crown

5 1/64"

bottom

Description of longitudinal joint

Welded.

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

Working pressure of furnace by Rules

210 #/sq in.

End plates in steam space: Material

Steel

Tensile strength

26-30 tons/sq in.

Thickness

1 1/16"

Pitch of stays

19 1/2" x 17 1/2"

How are stays secured

Double nuts & washers

Working pressure by Rules

210 #/sq in.

Tube plates: Material

front

Steel

back

Tensile strength

26-30 tons/sq in.

Thickness

15/16"

Lean pitch of stay tubes in nests

11"

Pitch across wide water spaces

14"

Working pressure

front

215 #/sq in.

back

229 #/sq in.

Girders to combustion chamber tops: Material

Steel

Tensile strength

29-33 tons/sq in.

Depth and thickness of girder

centre

10" @ 1 3/4"

Length as per Rule

35.219"

Distance apart

9 3/4"

No. and pitch of stays

each

3 @ 8 1/4"

Working pressure by Rules

217 #/sq in.

Combustion chamber plates: Material

Steel

Tensile strength

26-30 tons/sq in.

Thickness: Sides

24/32"

Back

23/32"

Top

23/32"

Bottom

24/32"

Pitch of stays to ditto: Sides

10" x 8 1/4"

Back

9 1/2" x 8 1/4"

Top

9 3/4" x 8 1/4"

Are stays fitted with nuts or riveted over

nuts

Working pressure by Rules

212 #/sq in.

Front plate at bottom: Material

Steel

Tensile strength

26-30 tons/sq in.

Thickness

15/16"

Lower back plate: Material

Steel

Tensile strength

26-30 tons/sq in.

Thickness

28/32"

Pitch of stays at wide water space

14" x 8 1/4"

Are stays fitted with nuts or riveted over

nuts

Working Pressure

214 #/sq in.

Main stays: Material

Steel

Tensile strength

28 tons/sq in. (min)

Diameter

At body of stay,

or

Over threads

3 1/4"

No. of threads per inch

8

Area supported by each stay

341 sq in.

Working pressure by Rules

249 #/sq in.

Screw stays: Material

Steel

Tensile strength

26-30 tons/sq in.

Diameter

At turned off part,

or

Over threads

1 3/4"

No. of threads per inch

10

Area supported by each stay

78.4 sq in.

Working pressure by Rules 232#0" Are the stays drilled at the outer ends No Margin stays: Diameter { At turned off part. } 1 7/8", 2" + 2 1/8"
No. of threads per inch 10 Area supported by each stay 97 sq inches Working pressure by Rules 220#0"
Tubes: Material Iron External diameter { Plain } 3 1/2" Thickness { 8 WG. } 5/16" + 3/8" No. of threads per inch 9
Pitch of tubes 4 3/4" x 4 3/4" Working pressure by Rules 215#0" Manhole compensation: Size of opening in
shell plate 16 x 12" Section of compensating ring 5 1/2" dia x 1 1/2" No. of rivets and diameter of rivet holes 118 @ 1 3/8"
Outer row rivet pitch at ends 4' 5 1/4" pc. (16 rivets) Depth of flange if manhole flanged 24/32" Steam Dome: Material Steel
Tensile strength 26-30 tons Thickness of shell 24/32" Description of longitudinal joint S.R. lap.
Diameter of rivet holes 1 1/32" Pitch of rivets 2 1/4" Percentage of strength of joint { Plate } 54.00.
Internal diameter 33" Working pressure by Rules 230#0" Thickness of crown 28/32" Rivets 43.80.
Stays 2 @ 2 1/4" Inner radius of crown ✓ Working pressure by Rules ✓
How connected to shell Riveted Size of doubling plate under dome 4' 9 1/2" dia x 1 1/2" Diameter of rivet holes and pitch
of rivets in outer row in dome connection to shell 1 3/8" 4' 5 1/4" pc. (16 rivets.)

Type of Superheater Manufacturers of { Tubes }
Material of tubes { Steel castings }
Number of elements 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 CHARLES D. HOLMES & CO., LTD.
Manufacturers

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

See mch Rpt.

Are the approved plans of boiler and superheater forwarded herewith No.
(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. "Vascama" 45688.

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

This boiler has been built under special survey and in accordance with the approved plan, the materials and workmanship being sound and good.

It has been satisfactorily fitted on board, tried under steam and its safety valves adjusted as stated.

The approved boiler plan was forwarded previously with report No 45688 on boiler No 1476.

Charged on engine report herewith.

Survey Fee ... £ :

When applied for, 19

Travelling Expenses (if any) £ :

When received, 19

C. Knoffatt.

Engineer Surveyor to Lloyd's Register of Shipping

Committee's Minute

FRI. 24 MAY 1935

Assigned

See Minute on F.E. Rpt.



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