

REPORT ON BOILERS.

No. 40189

Received at London Office 28 AUG 1929

of Report

192

When handed in at Local Office 26.8.1929

Port of

HULL

o. in Survey held at Book.

Hull

Date, First Survey

Jun. 10th 1929

Last Survey

August 26th 1929

(Number of Visits 18)

Gross

Tons

Net

on the Steam Trawler "BEVERLAC"

ster

Built at

Beverly

By whom built

Lock, Weller & Gemmell Ltd

Card No.

525

When built 1929

ines made at

Hull

By whom made

Charles D. Holmes & Co Ltd

Engine No.

1376

When made 1929

lers made at

Hull

By whom made

do

Boiler No.

1376

When made 1929

imal Horse Power

96

Owners

W. A. Massey & Sons Ltd

Port belonging to

Hull

ULTITUBULAR BOILERS—MAIN, AUXILIARY, OR DONKEY.

Manufacturers of Steel

Appleby Iron Co.

(Letter for Record)

tal Heating Surface of Boilers

1698 sq ft

Is forced draught fitted

no

Coal or Oil fired

coal

and Description of Boilers

one single ended Boiler

Working Pressure

200 lbs

sted by hydraulic pressure to

3500 lbs

Date of test

12.7.29

No. of Certificate

3724

Can each boiler be worked separately

✓

ea of Firegrate in each Boiler

49.2 sq ft

No. and Description of safety valves to each boiler

Two spring loaded.

ea of each set of valves per boiler

per Rule 9.8

as fitted 9.8

Pressure to which they are adjusted

200 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

7"

Is oil fuel carried in the double bottom under boilers

no

allest distance between shell of boiler and tank top plating

✓

Is the bottom of the boiler insulated

✓

argest internal dia. of boilers

14'-0"

Length

10'-8"

Shell plates: Material

Steel

Tensile strength

28/32 Tons D.R.

ickness

1 9/32"

Are the shell plates welded or flanged

✓

Description of riveting: circ. seams

end

3 3/4"

ng. seams

T.R. D.B.S.

Diameter of rivet holes in

circ. seams 1 9/32"

long. seams 1 9/32"

Pitch of rivets

8 7/16"

ercentage of strength of circ. end seams

plate

65.8

rivets

51.2

Percentage of strength of circ. intermediate seam

plate

✓

ercentage of strength of longitudinal joint

plate

85.03

rivets

90.8

Working pressure of shell by Rules

210 lbs

combined

88.8

ickness of butt straps

outer 1 1/8"

inner 1 1/8"

No. and Description of Furnaces in each Boiler

Three plain

aterial

Steel

Tensile strength

2 3/32 Tons

Smallest outside diameter

41" approx

ength of plain part

top 76"

bottom 69"

Thickness of plates

crown 1 3/16"

bottom 1 3/16"

Description of longitudinal joint

welded

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

✓

Working pressure of furnace by Rules

219 lbs

nd plates in steam space:

Material

Steel

Tensile strength

2 6/30 Tons

Thickness

1 3/16"

Pitch of stays

18

ow are stays secured

Double nuts & washers

Working pressure by Rules

220 lbs

ube plates:

Material

front Steel

back Steel

Tensile strength

2 6/30 Tons

Thickness

1 5/16"

7/8"

lean pitch of stay tubes in nests

10.97"

Pitch across wide water spaces

13 3/4"

Working pressure

front 211 lbs

back 230

irders to combustion chamber tops:

Material

Steel

Tensile strength

2 9/32 Tons

Depth and thickness of girder

t centre

10 1/2" x 1 3/4"

Length as per Rule

36 3/16"

Distance apart

9

No. and pitch of stays

n each

3 @ 8 3/4"

Working pressure by Rules

210

Combustion chamber plates: Material

Steel

Tensile strength

2 6/30 Tons

Thickness: Sides

3/4"

Back

2 3/32"

Top

3/4" x 2 3/32"

Bottom

3/4"

Pitch of stays to ditto:

Sides 9" x 8 3/4"

Back 9" x 8 3/4"

Top 9" x 8 3/4"

Are stays fitted with nuts or riveted over

nuts

Working pressure by Rules

230 lbs

Front plate at bottom: Material

Steel

Tensile strength

2 6/30 Tons

Thickness

1 5/16"

Lower back plate: Material

Steel

Tensile strength

2 6/30 Tons

Thickness

3/2"

Pitch of stays at wide water space

14" x 8 3/4"

Are stays fitted with nuts or riveted over

nuts

Working Pressure

228

Main stays: Material

Steel

Tensile strength

2 8/32 Tons

Diameter

At body of stay, 3 1/4"

Over threads

No. of threads per inch

8

Area supported by each stay

324 sq in

Working pressure by Rules

248

Screw stays: Material

Steel

Tensile strength

2 6/30 Tons

Diameter

At turned off part, 1 7/8"

Over threads

1 3/4"

No. of threads per inch

10

Area supported by each stay

78.9 sq in

W1343-0107

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Working pressure by Rules 230 lb. Are the stays drilled at the outer ends no Margin stays: Diameter ^{At turned off part,} 1 7/8"
 No. of threads per inch 10 Area supported by each stay 97.750. Working pressure by Rules 218 lb.
 Tubes: Material Iron External diameter ^{Plain} 3 1/2" Thickness ^{Stay} 5/16" No. of threads per inch 9
 Pitch of tubes 4 7/8" Working pressure by Rules 215 lb. Manhole compensation: Size of opening 32 @ 1/4"
 shell plate 16 x 12 Section of compensating ring 34 x 17 x 1 9/32 No. of rivets and diameter of rivet holes 32 @ 1/4"
 Outer row rivet pitch at ends 8 7/16" Depth of flange if manhole flanged ✓ Steam Dome: Material ✓
 Tensile strength 252 Thickness of shell ✓ Description of longitudinal joint ✓
 Diameter of rivet holes ✓ Pitch of rivets ✓ Percentage of strength of joint ^{Plate} ✓
 Internal diameter ✓ Working pressure by Rules ✓ Thickness of crown ✓ No. and diameter ✓
 stays ✓ Inner radius of crown ✓ Working pressure by Rules ✓
 How connected to shell ✓ Size of doubling plate under dome ✓ Diameter of rivet holes and ✓
 of rivets in outer row in dome connection to shell ✓

Type of Superheater
 Number of elements ✓ Material of tubes ✓ Manufacturers of ✓
 Material of headers ✓ Tensile strength ✓ Thickness ✓ Can the superheater be shut off ✓
 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 ✓
 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 23 inclusive for boilers been complied with ✓

The foregoing is a correct description,

FOR CHARLES D. HOLMES & CO., LTD.

Dates of Survey ^{During progress of work in shops - - -} Jun. 10. 20. Jul. 1. 1. 4. 5. 8. 10. 12. 20. 20. Are the approved plans of boiler and superheater forwarded herewith ✓
 while building ^{During erection on board vessel - - -} 21. Aug. 4. 18. 18. 14. 20. 21. (If not state date of approval.)
 Total No. of visits 19.

GENERAL REMARKS (State quality of workmanship, opinions as to class, &c.) This boiler has been built under special survey & in accordance with approved plan, & the materials & workmanship are sound & good. It has been satisfactorily fitted on board, & under steam & the safety valves adjusted as above.

Survey Fee £ Charged on Engineer When applied for, 192
 Travelling Expenses (if any) Report sent herewith When received, 192

W. H. Waggott

Engineer Surveyor to Lloyd's Register of Shipping.

Committee's Minute FRI. 30 AUG 1925

Assigned See Minute on
Std Rpt 40159



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