

REPORT ON BOILERS.

No. 40736.

Received at London Office

27 SEP 1929

Writing Report

No. 9 1929

When handed in at Local Office

26 Sept 1929

Port of

HULL.

Survey held at

Hull.

Date, First Survey

26 July

Last Survey

24 Sept 1929.

on the

Steam Trawler "GALVANI"

(Number of Visits 17.)

Gross 353.12

Net 136.11

Built at

Beverley

By whom built

Book, Welton & Gemmell No. 526

When built 1929

Made at

Hull

By whom made

Charles D Holmes & Co Ltd

Engine No.

1377

When made

1929

Made at

do

By whom made

do

Boiler No.

1377

When made

1929

Horse Power

96

Owners

J. T. Ross & Co

Port belonging to

Hull.

TUBULAR BOILERS—MAIN, AUXILIARY, OR DONKEY.

Manufacturers of Steel

Withowitzer & Bengban.

Withowitzer

(Letter for Record

(S) ✓

Heating Surface of Boilers

1698 sqft

Is forced draught fitted

No

Coal or Oil fired

coal ✓

Description of Boilers

one single ended ✓

Working Pressure

200lbs ✓

Tested by hydraulic pressure to

350 lb

Date of test

30.8.29

No. of Certificate

2731

Can each boiler be worked separately

✓

Firegrate in each Boiler

492 sqft

No. and Description of safety valves to each boiler

2 spring loaded ✓

of each set of valves per boiler

per Rule

9.8 sqft

as fitted

9.8 sqft

Pressure to which they are adjusted

200lbs ✓

Are they fitted with easing gear

yes. ✓

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

✓

Least distance between boilers or uptakes and bunkers or woodwork

7"

Is oil fuel carried in the double bottom under boilers

✓

Least distance between shell of boiler and tank top plating

Is the bottom of the boiler insulated

Least internal dia. of boilers

14'-0" ✓

Length

10'-8" ✓

Shell plates: Material

Steel

Tensile strength

28/32 Tons

Thickness

1 9/32"

Are the shell plates welded or flanged

✓

Description of riveting: circ. seams

end

D.R. ✓

seams

T.R. D.B.S. ✓

Diameter of rivet holes in

circ. seams

1 9/32"

Pitch of rivets

3 3/4"

8 9/16"

Percentage of strength of circ. end seams

plate

65.8

rivets

51.2

Percentage of strength of circ. intermediate seam

plate

✓

Percentage of strength of longitudinal joint

plate

85.0

rivets

90.8

Working pressure of shell by Rules

201 lbs

Thickness of butt straps

outer

1"

inner

1 7/8" ✓

No. and Description of Furnaces in each Boiler

Three plain 3 ft dia

Material

Steel

Tensile strength

26/30 Tons

Smallest outside diameter

41" ✓

Thickness of plain part

top

46"

bottom

69"

Thickness of plates

crown

1 3/16"

bottom

Description of longitudinal joint

welded ✓

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

Working pressure of furnace by Rules

219 lbs

plates in steam space: Material

Steel

Tensile strength

26/30 Tons

Thickness

1 3/16"

Pitch of stays

18" ✓

Are stays secured

D.R. & washers

Working pressure by Rules

220 lbs

plates: Material

front

Steel

back

Tensile strength

26/30 Tons

Thickness

1 5/16"

7/8"

Pitch of stay tubes in nests

10.97"

Pitch across wide water spaces

13 3/4" ✓

Working pressure

front

211 lbs

back

230 lbs

Boilers to combustion chamber tops: Material

Steel

Tensile strength

28/32 Tons

Depth and thickness of girder

Centre

10 1/2" x 1 3/4" ✓

Length as per Rule

36 3/16"

Distance apart

9" ✓

No. and pitch of stays

Each

3 @ 8 3/4" ✓

Working pressure by Rules

210 lbs

Combustion chamber plates: Material

Steel

Tensile strength

26/30 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 1/2" ✓

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

26/30 Tons

Thickness

1 5/16" ✓

Lower back plate: Material

Steel

Tensile strength

26/30 Tons

Thickness

29/32" ✓

Pitch of stays at wide water space

14" x 8 3/4" ✓

Are stays fitted with nuts or riveted over

nuts ✓

Working Pressure

228 lbs

Main stays: Material

Steel

Tensile strength

28/32 Tons

Pitch

At body of stay,

or

3/4" ✓

No. of threads per inch

8 ✓

Area supported by each stay

324 sq

Working pressure by Rules

248 lbs

Screw stays: Material

Steel

Tensile strength

26/30 Tons

Pitch

At turned off part,

or

1 7/8" x 1 3/4" ✓

No. of threads per inch

10 ✓

Area supported by each stay

78.9 sq

Lloyd's Register
Foundation

002305-02319-0247

Working pressure by Rules 230 lbs Are the stays drilled at the outer ends no Margin stays: Diameter { At turned off part, 1 7/8" or Over threads 218 lbs.

No. of threads per inch 10 Area supported by each stay 97.75 sq" Working pressure by Rules 215 lbs

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

Pitch of tubes 4 7/8" Working pressure by Rules 215 lbs Manhole compensation: Size of opening in shell plate 16" x 12" Section of compensating ring 34" x 7" x 1/2" No. of rivets and diameter of rivet holes 22 @ 1/4"

Outer row rivet pitch at ends 8 9/16" Depth of flange if manhole flanged no Steam Dome: Material no

Tensile strength no Thickness of shell no Description of longitudinal joint no

Diameter of rivet holes no Pitch of rivets no Percentage of strength of joint { Plate no Rivets no

Internal diameter no Working pressure by Rules no Thickness of crown no No. and diameter of stays no

How connected to shell no Inner radius of crown no Working pressure by Rules no

Size of doubling plate under dome no Diameter of rivet holes and pitch of rivets in outer row in dome connection to shell no

Type of Superheater no Manufacturers of { Tubes no Steel castings no

Number of elements no Material of tubes no Internal diameter and thickness of tubes no

Material of headers no Tensile strength no Thickness no Can the superheater be shut off and the boiler be worked separately no

Is a safety valve fitted to every part of the superheater which can be shut off from the boiler no

Area of each safety valve no Are the safety valves fitted with easing gear no Working pressure as per Rules no

Pressure to which the safety valves are adjusted no Hydraulic test pressure: tubes no castings no and after assembly in place no Are drain cocks or valves fitted to free the superheater from water where necessary no

Have all the requirements of Sections 14 to 23 inclusive for boilers been complied with no

The foregoing is a correct description,

J. Cooper Manufacturer.

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

See attached report Are the approved plans of boiler and superheater forwarded herewith (If not state date of approval.) on Machy

Total No. of visits 1

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

The boiler of this vessel has been built under special survey & in accordance with the approved plan & the materials & workmanship are sound & good. It has been satisfactorily fitted on board, tried under steam, & its safety valves adjusted as above.

Chapman engine report

Survey Fee £ 100 : : When applied for, 192

Travelling Expenses (if any) £ 10 : : When received, 192

John Shackleton

Engineer Surveyor to Lloyd's Register of Shipping.

Committee's Minute TUE. 1 OCT 1925

Assigned See P. 6. rpt. attached



© 2020

Lloyd's Register Foundation