

REPORT ON BOILERS.

No. 41784.

Received at London Office

16 OCT 1930

Date of writing Report

14.10.30

When handed in at Local Office

15 Oct 30

Port of

Hull

No. in Reg. Book.

HULL.

Date First Survey

22 April

Last Survey

13 Oct 1930

on the

STEAM TRAWLER "GEORGE AUNGER."

(Number of Visits)

Tons

Gross 363.06

Net 173.42

Master

Built at

Beverley

By whom built

Lock Nelson & Gemmell

Vard No.

554

When built

1930

Engines made at

Hull

By whom made

Amos & Smith Ltd

Engine No.

622

When made

1930

Boilers made at

Hull

By whom made

Amos & Smith Ltd

Boiler No.

622

When made

1930

Nominal Horse Power

91

Owners

The Bunch Steam Fishing Co Ltd

Port belonging to

Grimsby

MULTITUBULAR BOILERS—MAIN, AUXILIARY, OR DONKEY.

Manufacturers of Steel

Appleby Iron Co Ltd.

(Letter for Record)

Total Heating Surface of Boilers

1546 sq ft

Is forced draught fitted

no

Coal or Oil fired

coal

No. and Description of Boilers

One single ended return tube

1SR

Working Pressure

200 lb sq

Tested by hydraulic pressure to

350 lb sq

Date of test

5.9.30

No. of Certificate

3799

Can each boiler be worked separately

✓

Area of Firegrate in each Boiler

45 sq

No. and Description of safety valves to each boiler

2 Spring loaded

Area of each set of valves per boiler

per Rule 9.0 sq

as fitted 9.8 sq

Pressure to which they are adjusted

200 lb sq

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

7"

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

14'-0"

Length

10'-9"

Shell plates: Material

Steel

Tensile strength

29/33 tons

Thickness

1 1/4"

Are the shell plates welded or flanged

✓

Description of riveting: circ. seams

end

3 7/8"

inter.

8 1/2"

long. seams

LR. 2BS.

Diameter of rivet holes in

circ. seams

1 9/16"

Pitch of rivets

8 1/2"

Percentage of strength of circ. end seams

plate 66.9

rivets 42.2

Percentage of strength of circ. intermediate seam

plate

-

rivets

✓

Percentage of strength of longitudinal joint

plate 84.9

rivets 90.3

Working pressure of shell by Rules

201 lb sq

Thickness of butt straps

outer 1"

inner 1 1/16"

No. and Description of Furnaces in each Boiler

Three plain

Material

Steel

Tensile strength

26/30 tons

Smallest outside diameter

41 5/8"

Length of plain part

top 80"

bottom 84"

Thickness of plates

crown 13/16"

bottom 1/16"

Description of longitudinal joint

Welded

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

3 1/2" x 3 1/2" x 3/16"

Working pressure of furnace by Rules

208 lb sq

End plates in steam space: Material

Steel

Tensile strength

26/30 tons

Thickness

1 1/16"

Pitch of stays

21" x 16"

How are stays secured

Double nuts & washers

Working pressure by Rules

200 lb sq

Tube plates: Material

front Steel

back "

Tensile strength

26/30 tons

Thickness

5/16"

7/8"

Mean pitch of stay tubes in nests

10.1"

Pitch across wide water spaces

14"

Working pressure

front 208 lb sq

back 220 lb sq

Girders to combustion chamber tops: Material

Steel

Tensile strength

29/33 tons

Depth and thickness of girder

at centre

9 1/4" x 1 3/4"

Length as per Rule

36"

Distance apart

9"

No. and pitch of stays

in each

3 @ 8"

Working pressure by Rules

204 lb sq

Combustion chamber plates: Material

Steel

Tensile strength

26/30 tons

Thickness: Sides

1/16"

Back

1/16"

Top

1/16"

Bottom

1/16"

Pitch of stays to ditto: Sides

10" x 8"

Back

9 5/8" x 8 1/2"

Top

9" x 8"

Are stays fitted with nuts or riveted over

nuts

Working pressure by Rules

205 lb sq

Front plate at bottom: Material

Steel

Tensile strength

26/30 tons

Thickness

15/16"

Lower back plate: Material

Steel

Tensile strength

26/30 tons

Thickness

7/8"

Pitch of stays at wide water space

14" x 9"

Are stays fitted with nuts or riveted over

nuts

Working Pressure

250 lb sq

Main stays: Material

Steel

Tensile strength

28/32 tons

Diameter

At body of stay, 3 1/4"

Over threads

No. of threads per inch

6

Area supported by each stay

336 sq inches

Working pressure by Rules

240 lb sq

Screw stays: Material

Steel

Tensile strength

26/30 tons

Diameter

At turned off part, 1 1/8"

Over threads

No. of threads per inch

9

Area supported by each stay

81.75 sq inches

Working pressure by Rules 222 lb Are the stays drilled at the outer ends No Margin stays: Diameter 1 7/8" + 2"
No. of threads per inch 9 Area supported by each stay 101.25 Working pressure by Rules 200 lb
Tubes: Material Iron External diameter 3 1/2" Thickness 5/16" + 3/8" No. of threads per inch 9
Pitch of tubes 5 1/8" + 5" Working pressure by Rules 215 lb Manhole compensation: Size of opening in
shell plate 16" x 12" Section of compensating ring 56 5/8" No. of rivets and diameter of rivet holes 50 @ 1 1/4"
Outer row rivet pitch at ends 10 1/4" Depth of flange of manhole flanged 3 1/4" Steam Dome: Material Steel
Tensile strength 26/30 tons Thickness of shell 3/4" Description of longitudinal joint S.R. lap.
Diameter of rivet holes 1 3/8" Pitch of rivets 2 1/4" Percentage of strength of joint 54.0
Internal diameter 36" Working pressure by Rules 215 lb Thickness of crown 1 5/16" No. and diameter of
stays 2 @ 2 1/2" Inner radius of crown 1 1/4" Working pressure by Rules 56 5/8" dia
How connected to shell Riveted Size of doubling plate under dome 1 1/4" @ 10 1/4" Diameter of rivet holes and pitch
of rivets in outer row in dome connection to shell 1 1/4" @ 10 1/4"

Type of Superheater

Manufacturers of Tubes
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 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

For AMOS & SMITH LTD.

The foregoing is a correct description,

Manufacturer.

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

See attached report on Machy.

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

"Gallion"

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 and the materials and workmanship are sound and good. It has been satisfactorily fitted on board, examined under steam and its safety valves adjusted as above.

Charged on engine report sent herewith.

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. 21 OCT 1930

Assigned

See F.E. Rpt. P



© 2019 Lloyd's Register Foundation