

REPORT ON BOILERS.

No. 54671.

6 FEB 1948

Received at London Office

Date of writing Report

10

When handed in at Local Office

5 FEB 1948

10

Port of

HULL.

No. in Survey held at
Reg. Book.

HULL.

Date, First Survey

6. 6. 47.

Last Survey

26. 1.

19 48.

16693 on the

Steam Trawler "MARGARET WICKS".

(Number of Visits

17.

Gross 365
Tons {
Net

Master

Built at Beverley

By whom built Cook, Welton & Gemmell Ltd. No. 789 When built 1948

Engines made at Hull

By whom made Chas. D. Holmes & Co. Ltd.

Engine No. 1756 When made -do-

Boilers made at -do-

By whom made -do-

Boiler No. 1756 When made -do-

M.N. 115.5

Owners Clifton Steam Trawlers Ltd.

Port belonging to Fleetwood

MULTITUBULAR BOILERS MAIN, ~~AUXILIARY, OR DONKEY~~

Manufacturers of Steel Appleby-Frodingham Steel Co. Ltd.

Total Heating Surface of Boilers 1850 sq.ft. ✓

Is forced draught fitted

Yes ✓

(Letter for Record S

Coal or Oil fired Oil ✓

Working Pressure 210 lbs. ✓

No. and Description of Boilers 1 S.E. cylindrical multitubular. ✓

Tested by hydraulic pressure to 365 lb. Date of test 18.12.47. No. of Certificate 4295

Can each boiler be worked separately -

Area of Firegrate in each Boiler -

No. and Description of safety valves to each boiler

2 - D.S. ✓

Area of each set of valves per boiler { per Rule 10.3
as fitted 14.12 ✓

Pressure to which they are adjusted 216 lb. 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 ~~10.0 ft.~~ and bunkers ~~10.0 ft.~~ approx. 2'6" ✓

Is oil fuel carried in the double bottom under boilers

No ✓

Smallest distance between shell of boiler and tank top plating

open bottom. ✓

Is the bottom of the boiler insulated

No ✓

Largest internal dia. of boilers 14'3½" ✓

Length 10'8" ✓

Shell plates: Material

Steel ✓

Tensile strength 31-35 tons. ✓

Thickness

1½" ✓

Are the shell plates welded or flanged

No ✓

Description of riveting: circ. seams { end D.R. Lap. ✓
inter. -

long. seams

T.R. D.B.S. ✓

Diameter of rivet holes in { circ. seams 1.5/16" ✓
long. seams 1.11/32" ✓Pitch of rivets { 3.3/4" ✓
9.1/8" ✓Percentage of strength of circ. end seams { plate 65.3
rivets 43Percentage of strength of circ. intermediate seam { plate -
rivets -Percentage of strength of longitudinal joint { plate 85.1 ✓
rivets 85.8 ✓

combined 87.66 ✓

Working pressure of shell by Rules 217 lb/sq.in.

Thickness of butt straps { outer 31/32" ✓
inner 1.3/32" ✓

No. and Description of Furnaces in each Boiler

3 Deighton type corrugated. ✓

Material Steel

Tensile strength

26/30 tons. ✓

Smallest outside diameter

3'5½" ✓

Length of plain part { top -
bottom -Thickness of plates { crown 5/8" ✓
bottom -

Description of longitudinal joint

welded. ✓

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

Working pressure of furnace by Rules

End plates in steam space: Material

Steel ✓

Tensile strength

26-30 tons. ✓

Thickness

1.3/16" ✓

Pitch of stays 1'7" x 1'6½" ✓

How are stays secured

nuts and washers. ✓

Working pressure by Rules -

Tube plates: Material { front steel ✓
back " ✓Tensile strength { 26/30 tons. ✓
-do- ✓Thickness { 15/16" ✓
7/8" ✓

Mean pitch of stay tubes in nests

9¾" ✓

Pitch across wide water spaces

14 ✓

Working pressure { front -
back -

Girders to combustion chamber tops: Material

Steel ✓

Tensile strength 29 - 33 tons. ✓

Depth and thickness of girder

at centre 10" 2 @ 7/8" ✓

Length as per Rule -

Distance apart 10" ✓

10½" max. No. and pitch of stays

in each 3 - 8" ✓

Working pressure by Rules -

Combustion chamber plates: Material

Steel ✓

Tensile strength 26/30 tons. ✓

Thickness: Sides 23/32" ✓

Back 23/32" ✓

Top 23/32" ✓

Bottom 25/32" ✓

Pitch of stays to ditto: Sides 8½" x 9¼" ✓

Back 8½" x 8¾" ✓

Top 8" x 10½" max. ✓

stays fitted with nuts or riveted over

nuts ✓

Working pressure by Rules -

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" ✓

Are stays fitted with nuts or riveted over

nuts ✓

Working Pressure -

Main stays: Material

Steel ✓

Tensile strength

28/32 tons. ✓

Diameter { ~~XXXXXX~~
Over threads

3.1/8" ✓

No. of threads per inch

8 ✓

Area supported by each stay

Working pressure by Rules -

Screw stays: Material

Steel ✓

Tensile strength

26/30 tons. ✓

Diameter { ~~XXXXXX~~
Over threads

1½", 2", 2½" ✓

No. of threads per inch

10 ✓

Area supported by each stay

003895-003905-0101

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"MARGARET WICKS".

Working pressure by Rules - Are the stays drilled at the outer ends No Margin stays: Diameter ~~XXXXXXXXXX~~ Over threads 2", 2 1/8" ✓
 No. of threads per inch 10 ✓ Area supported by each stay - Working pressure by Rules -
 Tubes: Material Seamless ✓ External diameter { Plain 3 1/2" ✓ Stay 3 1/2" ✓ Thickness { 8 W.G. ✓ 3/8", 7/16" No. of threads per inch 9 ✓
 Pitch of tubes 4 7/8" x 4 7/8" ✓ Working pressure by Rules - Manhole compensation: Size of opening in
 shell plate 16" x 12" ✓ Section of compensating ring 4 5/8" x 1 1/4" ✓ No. of rivets and diameter of rivet holes dome fitted.
 Outer row rivet pitch at ends dome fitted. Depth of flange if manhole flanged - 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 1.11/32" ✓ Pitch of rivets 2 1/4" ✓ Percentage of strength of joint { Plate 54 ✓ Rivets 43.8 ✓
 Internal diameter 2'9" ✓ Working pressure by Rules - Thickness of crown 7/8" ✓ No. and diameter of
 stays 2 - 2 1/4" ✓ Inner radius of crown flat ✓ Working pressure by Rules -
 How connected to shell S.R. Size of doubling plate under dome 4'9 1/2" dia. x 1 1/4" ✓ Diameter of rivet holes and pitch
 of rivets in outer row in dome connection to shell 1.11/32" 3.72 pitch. ✓

Type of Superheater none fitted. 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 Working pressure as per
 Rules Pressure to which the safety valves are adjusted Hydraulic test pressure:
 tubes forgings and 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

The foregoing is a correct description,

FOR CHARLES D. HOLMES & CO., LTD. Manufacturer.

Dates of Survey { During progress of work in shops - - - 1947. June 6. Oct 24. Nov 20. Dec 2. 13. 19. Are the approved plans of boiler and superheater forwarded herewith 22.12.47.
 while building { During erection on board vessel - - - see machinery report. Total No. of visits 17.
 (If not state date of approval.)

Is this Boiler a duplicate of a previous case No If so, state Vessel's name and Report No. -

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

The boiler has been constructed and installed under Special Survey in accordance with the Secretary's letters, approved plans and the Rules.
 The materials and workmanship are good.
 The boiler was examined under hydraulic test of 365 lb/sq.in. on completion and found sound and tight.
 The safety valves were adjusted under steam to 216 lb/sq.in. and an accumulation test held.

Survey Fee ... £ : : When applied for, 19
 Travelling Expenses (if any) £ : : When received, 19
 see machinery report.

1122

N. Chambers.
 Engineer Surveyor to Lloyd's Register of Shipping.

Committee's Minute FEB. 19 MAR 1948

Assigned for audit see J.E. Pfr



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