

REPORT ON BOILERS.

No. 10,739.

Received at London Office

16 DEC 1931

of writing Report

19

When handed in at Local Office

10 Dec 1931

Port of *Belfast.*

Survey held at

Belfast.

Date, First Survey

Visited included in 4.8. moly. rept.

Last Survey

19

57 on the *Trim. Sc. vessel "CORBIS"*

(Number of Visits)

Gross 8132.
Net

ter Built at

Belfast.

By whom built

Workman, Clark (1928) Ltd.

Yard No. 519.

When built 1931.

ines made at

Walsend.

By whom made

North Eastern Marine Eng Co Ltd.

Engine No. *ms/4.*

When made 1931.

ers made at

Belfast.

By whom made

Workman, Clark (1928) Ltd.

Boiler No. 519.

When made 1931.

inal Horse Power

714.

Owners

Anglo Saxon Petroleum Co.

Port belonging to

London.

ULTITUBULAR BOILERS MAIN, AUXILIARY, OR DONKEY.

ufacturers of Steel

The British (Guest, Keen, Baldwins) Iron & Steel Co Ltd.

(Letter for Record *S.*)

l Heating Surface of Boilers

1247 sq ft each Boiler

Is forced draught fitted

yes.

Coal or Oil fired *oil & waste gas.*

and Description of Boilers

2 - S.E. MOLT.

Working Pressure *150 lbs/sq in.*

ed by hydraulic pressure to

275 lbs/sq in.

Date of test

3/2/31.

No. of Certificate

956.

Can each boiler be worked separately

yes.

a of Firegrate in each Boiler

No. and Description of safety valves to each boiler

Two pair, Cockburns Improved High lift.

i of each set of valves per boiler

per Rule *5.670"*

as fitted *6.2820"*

Pressure to which they are adjusted

150 lbs/sq in.

Are they fitted with easing gear

yes.

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

No main boiler

llest distance between boilers or uptakes and bunkers or woodwork

18"

Is oil fuel carried in the double bottom under boilers

Boiler in tween decks.

llest distance between shell of boiler and tank top plating

Is the bottom of the boiler insulated

yes.

gest internal dia. of boilers

11'-9"

Length

10'-6"

Shell plates: Material

Steel.

Tensile strength

28/32 tons.

ckness

3/32"

Are the shell plates welded or flanged

No.

Description of riveting: circ. seams

end Double.

seams

Shell riveted, double BS.

Diameter of rivet holes in

circ. seams *1 1/32"*

long. seams *3/32"*

Pitch of rivets

2.785"

centage of strength of circ. end seams

plate *63%*

rivets *59%*

Percentage of strength of circ. intermediate seam

plate *85.8%*

rivets *86.0%*

centage of strength of longitudinal joint

plate *85.8%*

rivets *86.0%*

combined *88.8%*

Working pressure of shell by Rules

155 lbs/sq in.

ckness of butt straps

outer *2 1/2"*

inner *2 1/2"*

No. and Description of Furnaces in each Boiler

2 - Deighton.

erial

Steel.

Tensile strength

26/30 tons.

Smallest outside diameter

41 1/2"

th of plain part

top *15"*

bottom *32"*

Thickness of plates

crown *15"*

bottom *32"*

Description of longitudinal joint

welded.

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

Working pressure of furnace by Rules

160.2 lbs/sq in.

l plates in steam space: Material

Steel

Tensile strength

26/30.

Thickness

1"

Pitch of stays *17x16*

are stays secured

Double nuts.

Working pressure by Rules

169.5 lbs/sq in.

e plates: Material

front *Steel.*

back *Steel.*

Tensile strength

26/30 tons.

Thickness

3/4"

n pitch of stay tubes in nests

11 1/4 x 7 1/4"

Pitch across wide water spaces

13 1/2"

Working pressure

front *213 lbs/sq in.*

back *235 lbs/sq in.*

lers to combustion chamber tops: Material

Steel.

Tensile strength

28/32 tons.

Depth and thickness of girder

entre

7 1/2 x 1 1/2"

Length as per Rule

2'-9"

Distance apart

8 1/2"

No. and pitch of stays

ach

2. 9"

Working pressure by Rules

166.4 lbs/sq in.

Combustion chamber plates: Material

Steel.

ile strength

26/30 tons.

Thickness: Sides

19/32"

Back

3/4"

Top

19/32"

Bottom

11/16"

h of stays to ditto: Sides

9 x 7 3/4"

Back

8 1/2 x 9"

Top

8 1/2 x 9"

Are stays fitted with nuts or riveted over

YES STAYS & MARGINAL BACK STAYS FITTED WITH NUTS. CENTRE BACK STAYS RIVETED OVER.

king pressure by Rules

172.5 lbs/sq in.

Front plate at bottom: Material

Steel

Tensile strength

26/30 tons.

ckness

1"

Lower back plate: Material

Steel

Tensile strength

26/30 tons

Thickness

13/16"

h of stays at wide water space

13 1/2"

Are stays fitted with nuts or riveted over

MARGINAL STAYS FITTED WITH NUTS. OTHER STAYS RIVETED OVER.

king Pressure

211 lbs/sq in.

Main stays: Material

Steel.

Tensile strength

28/32 tons.

eter

At body of stay, *2 1/2"*

Over threads

No. of threads per inch

6

Area supported by each stay

272 sq in.

king pressure by Rules

163 lbs/sq in.

Screw stays: Material

Steel.

Tensile strength

26/30.

eter

At turned off part, *1 1/2 to 1 3/4"*

Over threads

No. of threads per inch

9

Area supported by each stay

762 sq in.

Working pressure by Rules 164 lbs. Are the stays drilled at the outer ends yes. ✓ Margin stays: Diameter { At turned off part, or Over threads 1 1/4" ✓
 No. of threads per inch 9 Area supported by each stay 91.40" Working pressure by Rules 166.5 lbs. ✓
 Tubes: Material Dep. welded W.I. External diameter { Plain 2 1/2" ✓ Thickness { 8 WG ✓ No. of threads per inch 9 ✓
 Pitch of tubes 3 3/4" x 3 5/8" Working pressure by Rules 300 lbs. ✓ Manhole compensation: Size of opening in shell plate 15" x 19" Section of compensating ring 32 5/8" x 32 1/2" x 27 1/2" No. of rivets and diameter of rivet holes 42 RIVETS 1 3/2" O/A. ✓
 Outer row rivet pitch at ends 7 1/4" ✓ Depth of flange if manhole flanged 3 1/4" ✓ Steam Dome: Material

Tensile strength Thickness of shell Description of longitudinal joint
 Diameter of rivet holes Pitch of rivets Percentage of strength of joint { Plate Rivets
 Internal diameter Working pressure by Rules Thickness of crown No. and diameter of stays
 Inner radius of crown Working pressure by Rules
 How connected to shell Size of doubling plate under dome Diameter of rivet holes and pitch of rivets in outer row in dome connection to shell

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

The foregoing is a correct description,
pro WORKMAN CLARK (1928) LIMITED, Manufacturer.
J. Cunningham Secretary.

Dates of Survey { During progress of work in shops - - }
 while building { During erection on board vessel - - - }
 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 No. If so, state Vessel's name and Report No. ✓

GENERAL REMARKS (State quality of workmanship, opinions as to class, &c.) These boilers have been constructed under special survey. The materials and workmanship are sound and good. They have been efficiently fixed in the vessel and the safety valves adjusted under steam to 150 lbs.

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

John K. Williams.
 Engineer Surveyor to Lloyd's Register of Shipping.

Committee's Minute TUE. 22 DEC 1931

Assigned

See J. K. Rpt.



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