

REPORT ON BOILERS.

No. 10,583

2 DEC 1931

11 MAR 1931

Received at London Office

Writing Report

10

When handed in at Local Office

10 Jan 1931

Port of

Belfast

Survey held at

Belfast

Date, First Survey 20 Nov 1930

Last Survey 26 Feb 1931

(Number of Visits

19

Tons

Gross 8376

Net 4953

on the

M.V. "CONCH"

Built at

Glasgow

By whom built

Harland & Wolff Ltd

Yard No. 909 When built 1931

made at

Glasgow

By whom made

Harland & Wolff Ltd

Engine No. 909 When made 1931

made at

Belfast

By whom made

Harland & Wolff Ltd

Boiler No. 9094 When made 1931

Horse Power

876

Owners

Anglo Saxon Petroleum Co Ltd

Port belonging to

London

TITUBULAR BOILERS MAIN, AUXILIARY, OR DONKEY.

Manufacturers of Steel

J. & W. Colville & Sons Ltd

(Letter for Record 5)

Heating Surface of Boilers

2404 sq ft

Is forced draught fitted

Yes

Coal or Oil fired Oil

Description of Boilers

Two single-ended cylindrical

Working Pressure 150 lbs

Hydraulic pressure to

300 lbs

Date of test 26.2.31

No. of Certificate 958

Can each boiler be worked separately

Firegrate in each Boiler

No. and Description of safety valves to each boiler

Each set of valves per boiler

(per Rule as fitted)

Pressure to which they are adjusted

Are they fitted with easing gear

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

Manuf.

distance between boilers or uptakes and bunkers or woodwork

Is oil fuel carried in the double bottom under boilers

distance between shell of boiler and tank top plating

Is the bottom of the boiler insulated

internal dia. of boilers

11' 9"

mean Length

10' 6"

Shell plates: Material Steel

Tensile strength 29 1/2 - 33 tons

Are the shell plates welded or flanged

No

Description of riveting: circ. seams

end

inter.

Diameter of rivet holes in

circ. seams 1 1/8"

long. seams 5/16"

Pitch of rivets

2.97"

Percentage of strength of circ. end seams

plate 64.2

rivets 54.9

Percentage of strength of circ. intermediate seam

plate

rivets

Percentage of strength of longitudinal joint

plate 85.7

rivets 90.3

combined 89.49

Working pressure of shell by Rules

150 lbs

No. and Description of Furnaces in each Boiler

Two main

Tensile strength

26-30 tons

Smallest outside diameter

39 1/2"

Thickness of plates

crown 1 1/8"

bottom 3/4"

Description of longitudinal joint

weld

Working pressure of furnace by Rules

168 lbs

Material Steel

Tensile strength

26-30 tons

Thickness

1 1/8"

Pitch of stays 16 1/2" x 16"

Working pressure by Rules

178 lbs

Material Steel

Tensile strength

26-30 tons

Thickness

1 1/8"

Pitch of stay tubes in nests

8"

Pitch across wide water spaces

14" x 8"

Working pressure

front 176 lbs

back 293 lbs

Material Steel

Tensile strength

28-32 tons

Depth and thickness of girder

Length as per Rule

31"

Distance apart

8 1/2"

No. and pitch of stays

Working pressure by Rules

18 1/2 lbs

Combustion chamber plates: Material

Steel

Thickness: Sides

3/4"

Back

3/4"

Top

3/4"

Bottom

3/4"

Are stays fitted with nuts or riveted over

nuts on margin stays only

Material Steel

Tensile strength

26-30 tons

Thickness

1 1/8"

Material Steel

Tensile strength

26-30 tons

Thickness

1 1/8"

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26-30 tons

Thickness

1 1/8"

Material Steel

Tensile strength

26-30 tons

Thickness

1 1/8"

Working pressure by Rules 162 lb. sq. in. Are the stays drilled at the outer ends Yes Margin stays: Diameter 1 1/8" - 1 3/4"
 No. of threads per inch 20 Area supported by each stay 96.75 sq. in. Working pressure by Rules 187 lb. sq. in.
 Tubes: Material Iron External diameter 2 3/4" Thickness 7/16" - 3/8" - 1/4" No. of threads per inch 20
 Pitch of tubes 4" x 4" Working pressure by Rules 162 lb. sq. in. Manhole compensation: Size of opening 12"
 shell plate 16" x 1/2" Section of compensating ring 36" x 32" x 1 3/16" double No. of rivets and diameter of rivet holes 28 - 1 1/8"
 Outer row rivet pitch at ends 10" Depth of flange if manhole flanged thickened 5 3/4" Steam Dome: Material Iron
 Tensile strength Thickness of shell Description of longitudinal joint
 Diameter of rivet holes Pitch of rivets Percentage of strength of joint
 Internal diameter Working pressure by Rules Thickness of crown No. and diam. made at
 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

Manufacturers of Tubes
 Steel castings
 Internal diameter and thickness of tubes
 Number of elements Material of tubes Thickness Can the superheater be shut off
 Material of headers Tensile strength
 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
 Rules Pressure to which the safety valves are adjusted Hydraulic test pressure
 tubes castings and after assembly in place Are drain cocks or valves
 to free the superheater from water where necessary
 Have all the requirements of Sections 14 to 22 inclusive for boilers been complied with Yes

The foregoing is a correct description.
 For HARLAND AND WOLFF, LIMITED.
 For the Managing Director

Dates of Survey 1930
 During progress of work in shops - - Nov. 20, 24, 28 Dec 2, 16, 19, 31
 while building 451
 During erection on board vessel - - Jan 1, 7, 14, 15, 23, 29, 30 Feb 6, 9, 12 Total No. of visits 19
16, 26

Is this Boiler a duplicate of a previous case Yes If so, state Vessel's name and Report No. Contract 9089- Bel Rpt No. 10575

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

These Boilers have been constructed under special survey and to an approved plan. The materials and workmanship are sound and good. They have been satisfactorily tested by hydraulic pressure to 300 lb. sq. in. as required by the Specification. They are to be forwarded to Glasgow for fitting aboard.

Survey Fee ... £ 16 : - - ✓ When applied for, 10th Mar 1931
 Travelling Expenses (if any) £ : : When received, 28 - 3 - 1931

R. Lee Ames
 Engineer Surveyor to Lloyd's Register of Ship

Committee's Minute GLASGOW 1-DEC 1931

Assigned SEE ACCOMPANYING MACHINERY REPORT.
(Glas. No. 51965)



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