

5a.

AIR RESERVOIRS. REPORT ON BOILERS.

No. 51965

Received at London Office

2 DEC 1931

Writing Report

30th Jan 1931

When handed in at Local Office

30th Nov 1931

Port of

GLASGOW.

Survey held at

glasgow

Date, First Survey

21st Aug 1930

Last Survey

8th Dec. 1931

(Number of Visits 82)

Gross

8376

Tons

Net 4953

on the

Tw. Sc.

M. V. "CONCH"

Built at

glasgow

By whom built

Harland & Wolff Ltd

ard No.

9096. When built 1931.

and diams made at

glasgow

By whom made

Do.

Engine No

909 When made 1931.

made at

Belfast

By whom made

Do.

Boiler No.

9096. When made 1931.

et holes and

l Horse Power

Owners

Anglo-Saxon Petroleum Co. Ltd.

Port belonging to

London.

~~TITUBULAR BOILERS MAIN, AUXILIARY, OR DONKEY.~~

Manufacturers of Steel

(Letter for Record

Heating Surface of Boilers

Is forced draught fitted

Coal or Oil fired

Description of Boilers

Form: Cylindrical

Built: Steel

Working Pressure

356 lb./sq. in.

by hydraulic pressure to

Date of test

No. of Certificate

Can each boiler be worked separately

of Firegrate in each Boiler

No. and Description of safety valves to each boiler

2 - Direct Spring

of each set of valves per boiler

per Rule as fitted

2 @ 3" diam.

Pressure to which they are adjusted

356 lb./sq. in.

Are they fitted with easing gear

No.

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

Minimum distance between boilers or uptakes and bunkers or woodwork

Is oil fuel carried in the double bottom under boilers

Minimum distance between shell of boiler and tank top plating

Is the bottom of the boiler insulated

internal dia. of boilers

Length

Shell plates: Material

Tensile strength

Are the shell plates welded or flanged

Description of riveting: circ. seams

end

inter

Diameter of rivet holes in

circ. seams

long. seams

Pitch of rivets

Percentage of strength of circ. end seams

plate

rivets

Percentage of strength of circ. intermediate seam

plate

rivets

Percentage of strength of longitudinal joint

plate

rivets

combined

Working pressure of shell by Rules

No. and Description of Furnaces in each Boiler

Tensile strength

Smallest outside diameter

of plain part

top

bottom

Thickness of plates

crown

bottom

Description of longitudinal joint

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

Working pressure of furnace by Rules

Stays in steam space: Material

Tensile strength

Thickness

Pitch of stays

Are stays secured

Working pressure by Rules

Stays: Material

front

back

Tensile strength

Thickness

Pitch of stay tubes in nests

Pitch across wide water spaces

Working pressure

front

back

Stays to combustion chamber tops: Material

Tensile strength

Depth and thickness of girder

Length as per Rule

Distance apart

No. and pitch of stays

Working pressure by Rules

Combustion chamber plates: Material

Strength

Thickness: Sides

Back

Top

Bottom

Stays to ditto: Sides

Back

Top

Are stays fitted with nuts or riveted over

Working pressure by Rules

Front plate at bottom: Material

Tensile strength

Stays

Lower back plate: Material

Tensile strength

Thickness

Stays at wide water space

Are stays fitted with nuts or riveted over

Pressure

Main stays: Material

Tensile strength

At body of stay,

or

Over threads

No. of threads per inch

Area supported by each stay

Working pressure by Rules

Screw stays: Material

Tensile strength

At turned off part,

or

Over threads

No. of threads per inch

Area supported by each stay

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Register Foundation

Working pressure by Rules Are the stays drilled at the outer ends Margin stays: Diameter { At turn d off part, or Over threads

No. of threads per inch Area supported by each stay Working pressure by Rules

Tubes: Material External diameter { Plain Stay Thickness No. of threads per inch

Pitch of tubes Working pressure by Rules **Manhole compensation:** Size of opening

shell plate Section of compensating ring No. of rivets and diameter of rivet holes

Outer row rivet pitch at ends Depth of flange if manhole flanged **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 rivets 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

Number of elements Material of tubes Internal diameter and thickness of tubes

Material of headers Tensile strength Thickness Can the superheater be shut off at

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

The foregoing is a correct description,

Dates of Survey { During progress of work in shops - - - } Are the approved plans of boiler and superheater forwarded herewith (If not state date of approval.)

while building { During erection on board vessel - - - } **SEE ACCOMPANYING MACHINERY REPORT** Total No. of visits

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

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

 properly fitted in the vessel and the safety valves adjusted

 above. Fusible plugs are fitted in each receiver.

Survey Fee £ : : When applied for, 19

Travelling Expenses (if any) £ : : When received, 19

 J. D. Boyle
Engineer Surveyor to Lloyd's Register of Shipping

Committee's Minute **GLASGOW 1-DEC 1931**

Assigned **SEE ACCOMPANYING MACHINERY REPORT.**