

REPORT ON BOILERS.

No. 51965

5a.

RETAIN

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

31st 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

Card 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

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

Air Reservoirs

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

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

Diameter of rivet holes in

circ. seams

Pitch of rivets

Percentage of strength of circ. end seams

plate rivets

Percentage of strength of circ. intermediate seam

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

Thickness of plates

top

bottom

Thickness of plates

crowns

bottom

Description of longitudinal joint

Working pressure of furnace by Rules

105

Thickness

Pitch of stays

Working pressure by Rules

Working pressure by Rules

Material

front

back

Tensile strength

Thickness

Pitch of stay tubes in nests

Pitch across wide water spaces

Working pressure

front

back

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

Working pressure by Rules

Lower back plate: Material

Tensile strength

Thickness

Stays at wide water space

Are stays fitted with nuts or riveted over

Working pressure by Rules

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

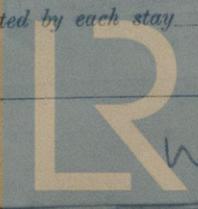
Screw stays: Material

Tensile strength

At turned off part, or Over threads

No. of threads per inch

Area supported by each stay



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AIR RECEIPTS

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

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, _____

Manuf. whether ste _____

odwork _____

plates: _____

the shell pla _____

of rivet hol _____

ing pressu _____

Crown: _____

e strength _____

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e apart _____

Dates of Survey while building { During progress of work in shops - - - During erection on board vessel - - - } _____

Are the approved plans of boiler and superheater forwarded herewith (If not state date of approval.) _____

SEE ACCOMPANYING MACHINERY REPORT

Total No. of visits _____

Is this Boiler a duplicate of a previous case Yes. If so, state Vessel's name and Report No. M.V. "Aliona": G.L. Rpt. 5

GENERAL REMARKS (State quality of workmanship, opinions as to class, &c.) These Air Receivers have been properly fitted in the vessel and the safety valves adjusted above. Fusible plugs are fitted in each receiver.

2. 30/11/31

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.**