

REPORT ON BOILERS.

No. 5 1118

24 DEC 1930

Received at London Office

Writing Report

19

When handed in at Local Office 22.12.1930

Port of

Glasgow

Survey held at

Glasgow

Date, First Survey

Last Survey

19th Dec

1930.

(Number of Visits

Gross 891

on the

Twin S.S. "Sligo"

Tons

Net 542

Built at

Dublin

By whom built

Dublin Dockyard Co. Ltd.

No. 146

When built 1930.

made at

Glasgow

By whom made

McAlister & Bester Ltd.

Engine No. 1255

When made 1930.

made at

Dunblane

By whom made

Palmer Ltd.

Boiler No. 14415

When made 1930.

Horse Power

249

Owners

Sligo Steam Navigation Co. Ltd.

Port belonging to

Sligo

Newcastle Report No. 86/55.

TITUBULAR BOILERS—MAIN, AUXILIARY, OR DONKEY.

Manufacturers of Steel

(Letter for Record S)

Heating Surface of Boilers

4600 sq

Is forced draught fitted

No.

Coal or Oil fired

Coal.

Description of Boilers

Two Single End

Working Pressure

200 lbs

by hydraulic pressure to

Date of test 20.8.30

No. of Certificate 4912

Can each boiler be worked separately

Yes.

of Firegrate in each Boiler

No. and Description of safety valves to each boiler

Two direct spring.

of each set of valves per boiler

per Rule 14.43

as fitted 14.14

Pressure to which they are adjusted

200 lbs

Are they fitted with easing gear

Yes.

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

Least distance between boilers or uptakes and bunkers or woodwork

Not clear

Is oil fuel carried in the double bottom under boilers

No.

Least distance between shell of boiler and tank top plating

Is the bottom of the boiler insulated

Least internal dia. of boilers

Length

Shell plates: Material

Tensile strength

ness

Are the shell plates welded or flanged

Description of riveting: circ. seams

end

seams

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

Thickness of butt straps

outer

inner

No. and Description of Furnaces in each Boiler

Material

Tensile strength

Smallest outside diameter

Thickness of plain part

top

bottom

Thickness of plates

crown

bottom

Description of longitudinal joint

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

Working pressure of furnace by Rules

plates in steam space: Material

Tensile strength

Thickness

Pitch of stays

Are stays secured

Working pressure by Rules

plates: Material

front

back

Tensile strength

Thickness

Pitch of stay tubes in nests

Pitch across wide water spaces

Working pressure

front

back

Boilers to combustion chamber tops: Material

Tensile strength

Depth and thickness of girder

Centre

Length as per Rule

Distance apart

No. and pitch of stays

Back

Working pressure by Rules

Combustion chamber plates: Material

Tensile strength

Thickness: Sides

Back

Top

Bottom

Pitch of 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

Thickness

Lower back plate: Material

Tensile strength

Thickness

Pitch of stays at wide water space

Are stays fitted with nuts or riveted over

Working Pressure

Main stays: Material

Tensile strength

meter

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

meter

At turned off part,
or
Over threads

No. of threads per inch

Area supported by each stay

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Lloyd's Register
Foundation

Working pressure by Rules

Are the stays drilled at the outer ends

Margin stays: Diameter { At turned 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 gins ma

stays

Inner radius of crown

Working pressure by Rules

How connected to shell

Size of doubling plate under dome

Diameter of rivet holes and pi

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 a

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

Rules

Pressure to which the safety valves are adjusted

Hydraulic test pressu

tubes

, castings

and after assembly in place

Are drain cocks or valves fitted by h

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,

Manufactures dis

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

If so, state Vessel's name and Report No.

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

These Boilers have been placed on board and efficiently secured in position, afterwards examined under steam and found tight.

Survey Fee £ : : -

When applied for, 19

Travelling Expenses (if any) £ : : -

When received, 19

Committee's Minute GLASGOW 23 DEC 1930

Assigned SEE ACCOMPANYING MACHINERY REPORT

Performed

Engineer Surveyor to Lloyd's Register of Shipping

FRI. 2 JAN 1931

See Sub. 26 482
Lloyd's Register Foundation