

5a.

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

on the

Twin S.S. "Sligo"

(Number of Visits ✓)

Gross 891

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 & Baxter Ltd.

Engine No. 1255

When made 1930

made at

Debban

By whom made

Palmar Ltd.

Boiler No. 14445

When made 1930

Horse Power

249

Owners

Sligo Steam Navigation Co. Ltd.

Port belonging to

Sligo

Discrepancy 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

General Description of Boilers

Two Single Ended

Working Pressure

200 lbs

Tested by hydraulic pressure to

Date of test 20.8.30

No. of Certificate 49142

Can each boiler be worked separately

Yes

No. of Firegrate in each Boiler

No. and Description of safety valves to each boiler

Two direct spring

Pressure of each set of valves per boiler

per Rule 143.5
as fitted 144

Pressure to which they are adjusted

200 lbs

Are they fitted with easing gear

Yes

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

No

Least distance between boilers or uptakes and bunkers or woodwork

well 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

Thickness

Are the shell plates welded or flanged

Description of riveting: circ. seams

end

inter.

Number of 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

Thickness of plates in steam space

Material

Tensile strength

Thickness

Pitch of stays

Are stays secured

Working pressure by Rules

Thickness of plates

front

back

Tensile strength

Thickness

Pitch of stay tubes in nests

Pitch across wide water spaces

Working pressure

front

back

Thickness of plates 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

Thickness 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

Thickness of stays at wide water space

Are stays fitted with nuts or riveted over

Working Pressure

Main stays: Material

Tensile strength

Thickness

At body of stay, or Over threads

No. of threads per inch

Area supported by each stay

Working pressure by Rules

Screw stays: Material

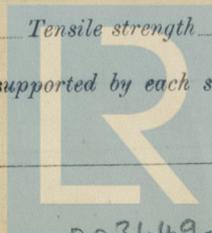
Tensile strength

Thickness

At turned off part, or Over threads

No. of threads per inch

Area supported by each stay



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Working pressure by Rules *21112* 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
 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
 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 pressure
 tubes castings and after assembly in place Are drain cocks or valves fitted by
 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, Manufacturest dis

Dates of Survey ^{During progress of} _{work in shops - - -} Are the approved plans of boiler and superheater forwarded herewith
 while ^{During erection on} _{board vessel - - -} (If not state date of approval.)
 building ^{SEE ACCOMPANYING MACHINERY REPORT} 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.

A.L.
22/12/30

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

John Murray
 Engineer Surveyor to Lloyd's Register of Shipping

Committee's Minute **GLASGOW 23 DEC 1930**

Assigned SEE ACCOMPANYING MACHINERY REPORT.

