

REPORT ON BOILERS.

No. 14714

Received at London Office

8-MAR-1949

Date of writing Report

19

When handed in at Local Office

7/3/49

19

Port of

Belfast

No. in
Reg. Book.

Survey held at

Belfast

Date, First Survey

Last Survey

19

on the

Twin Screw Magdalena

(Number of Visits

Tons

Gross

Net

Built at

Belfast

By whom built

Harland & Wolff Ltd.

Yard No. 1334

When built 1949

Engines made at

By whom made

Engine No.

When made

Boilers made at

Gleeds

By whom made

Messrs. Selington Son & Co. Ltd.

Boiler No. 8329

When made 1948

Owners

Royal Mail Lines Ltd.

Port belonging to

VERTICAL BOILER.

Made at

By whom made

Boiler No.

When made

Where fixed

Manufacturers of Steel

Is forced draught fitted

Coal or Oil fired

Total Heating Surface of Boiler

Working Pressure

No. and Description of Boilers

No. of Certificate

Tested by hydraulic pressure to

Date of test

Area of fire grate in each Boiler

No. and description of safety valves to each boiler

Area of each set of valves per boiler

{ per Rule
as fitted

Pressure to which they are adjusted

Are they fitted with easing gear

State whether steam from main boilers can enter the donkey boiler

Smallest distance between boiler or uptake and bunkers

Woodwork

Is oil fuel carried in the double bottom under boiler

Smallest distance between base of boiler and tank top plating

Is the base of the boiler insulated

Largest internal dia. of boiler

Height

Shell plates: Material

Tensile strength

Thickness

Are the shell plates welded or flanged

If fusion welded, state name of welding firm

Have all the requirements of the Rules for Class I vessels been complied with

Description of riveting: circ. seams { end
inter

Long. seams

Dia. of rivet holes in { circ. seams
long. seams

Pitch of rivets

Percentage of strength of circ. seams { plate
rivetsLongitudinal joint { plate
rivets
combinedThickness of butt straps { outer
inner

Shell Crown: Whether complete hemisphere, dished partial

Spherical, or flat

Material

Tensile strength

Thickness

Radius

Description of Furnace: Plain, spherical, or dished crown

Material

Tensile strength

Thickness

External diameter { top
bottom

Length as per Rule

Pitch of support stays circumferentially

and vertically

Are stays fitted with nuts or riveted over

Diameter of stays over thread

Radius of spherical or dished furnace crown

Diameter as per Rule { D
d

Thickness of Ogee Ring

Thickness of top plate

Combustion Chamber: Material

Tensile strength

Diameter if circular

Radius if dished

Thickness of back plate

Length as per Rule

Pitch of stays

Diameter of stays over thread

Are stays fitted with nuts or riveted over

Tube Plates: Material { front
back

Tensile strength {

Thickness {

Mean pitch of stay tubes in nests

comprising shell, dia. as per Rule { front
back

Pitch in outer vertical rows {

Dia. of tube holes FRONT { stay
plainBACK { stay
plain

each alternate tube in outer vertical rows a stay tube

Tensile strength

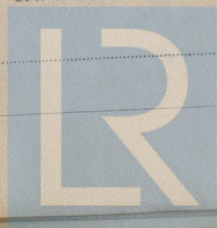
Girders to Combustion Chamber Tops: Material

Length as per Rule

Depth and thickness of girder at centre

No. and pitch of stays in each

Distance apart



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Foundation

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Crown Stays: Material

Tensile strength

Diameter { at body of stay
or
over threads

No. of threads per inch

Screw Stays: Material

Tensile strength

Diameter { at turned off part,
or
over threads

No. of threads per inch

Are the stays drilled at the outer ends

Tubes: Material

External diameter { plain
stay

Thickness {

No. of threads per inch

Pitch of tubes

Manhole Compensation: Size of opening in 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

Uptake: External diameter

Thickness of uptake plate

Cross Tubes: No.

External diameters {

Thickness of plates

Have all the requirements of Sections 11 to 22 inclusive for boilers been complied with

The foregoing is a correct description,

Manufacturer

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

Is the approved plan of boiler 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 satisfactorily installed on board the vessel, safety valves adjusted under steam to 100 lb/sq. inch and accumulation tests carried out. Plans subject to ogee rings of both boilers being specially examined on vessel's return to U.K. for full particulars see follow sheet to first entry report on machinery.

Survey Fee ... £

When applied for

19

Travelling Expenses (if any) £

When received

19

Date

FRI. 22 APR 1949

Committee's Minute

See F.E. mch. rpt.

Engineer Surveyor to Lloyd's Register of Shipping.



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