

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

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. 1354

When built 1949

engines made at

By whom made

Engine No.

When made

boilers made at

Leeds

By whom made

Messrs. Clayton 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

Total Heating Surface of Boiler

Is forced draught fitted

Coal or Oil fired

No. and Description of Boilers

Working Pressure

Tested by hydraulic pressure to

Date of test

No. of Certificate

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
rivets

Longitudinal joint { plate
rivets
combined

Thickness 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

Thickness of Ogee Ring

Diameter as per Rule { D
d

Combustion Chamber: Material

Tensile strength

Thickness of top plate

Radius if dished

Thickness of back plate

Diameter if circular

Length as per Rule

Pitch of stays

Are stays fitted with nuts or riveted over

Diameter of stays over thread

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
plain

BACK { 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

See Leeds Report No. 248

Encl 3/4/49

ed ed s



© 2020

Lloyd's Register Foundation

5-B 14714

5b.
JUL 1948
D.O.

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 lbs/sq. inch and accumulation tests carried out plan subject to agee 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

W. Russell
 Engineer Surveyor to Lloyd's Register of Shipping.

Date **FRI. 22 APR 1948**
 Committee's Minute *See F.E. mch. rpt.*

