

REPORT ON BOILERS.

Received at London Office 13 FEB 1937

Date of writing Report

19

When handed in at Local Office

12. 2. 1937

Port of Belfast

Please see report 5a

No. in Reg. Book

Survey held at

Belfast

Date, First Survey

Last Survey

5th Feb, 1937

on the

JM

M.V. "SALACIA"

(Number of Visits)

Gross 5694.99
Tons Net 3286.12

Built at

Glasgow

By whom built

Harland & Wolff Ltd

Yard No. 982G

When built 1937

Engines made at

Glasgow

By whom made

Harland & Wolff Ltd

Engine No. 982

When made 1937

Boilers made at

Belfast

By whom made

Harland & Wolff Ltd

Boiler No.

When made 1937

Owners

Donaldson Line Ltd.

Port belonging to

Glasgow

VERTICAL DONKEY BOILER.

Made at Belfast

By whom made

Harland & Wolff Ltd

Boiler No.

When made 1937

Where fixed L.R. Top.

Manufacturers of Steel

Colvilles Ltd

Total Heating Surface of Boiler

900^{sq}

Is forced draught fitted

no.

Coal or Oil fired Exh. gas ✓

No. and Description of Boilers

One Clarkson Thimble Tube

Working pressure 120 lbs

Tested by hydraulic pressure to

230 lb

Date of test

5-2-37

No. of Certificate 1027

Area of Firegrate in each Boiler

No. and Description of safety valves to each boiler One 2 3/4" double spring marine type

Area of each set of valves per boiler

per rule 8.33^{sq}
as fitted 11.88^{sq}

Pressure to which they are adjusted 120 lb/0"

Are they fitted with easing gear Yes ✓

State whether steam from main boilers can enter the donkey boiler

✓

Smallest distance between boiler or uptake and bunkers

or woodwork

✓

Is oil fuel carried in the double bottom under boiler

no

Smallest distance between base of boiler and tank top plating

Is the base of the boiler insulated

✓

Largest internal dia. of boiler

7'-1"

Height 16'-6"

Shell plates: Material

S.M. Steel

Tensile strength

28/32

Thickness

7/8" + 5/8"

Are the shell plates welded or flanged at ends & butts

Description of riveting: circ. seams

end DR
inter. ✓

long. seams DR butt straps

Dia. of rivet holes in

circ. seams 1 1/4"
long. seams 1 1/8"

Pitch of rivets

3.55
4.375

Percentage of strength of circ. seams

plate 64.5
rivets 64.6

of Longitudinal joint

plate 74.3
rivets 80.0
combined 84.5

Working pressure of shell by rules

by rivets 148 lb by Thimbles 168 lb

Thickness of butt straps

outer 1 1/2"
inner 1 1/4"

Shell Crown: Whether

complete hemisphere, dished partial spherical, or flat

Yes

Material

S

Tensile strength

26/30

Thickness

7/8"

Radius

6'-0"

Working pressure by rules

146 lb

Description of Furnace: Plain, spherical, or dished crown

Material

Tensile strength

Thickness

External diameter

top
bottom

Length as per rule

Working pressure by rules

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

Working pressure by rule

Thickness of Ogee Ring

1 1/32"

Diameter as per rule

7'-1"
4'-5 1/2"

Working pressure by rule

122 lb

Combustion Chamber: Material

S

Tensile strength

26/30

Thickness of top plate

1 3/4"

Radius if dished

3'-6"

Working pressure by rule

160

Thickness of back plate

1 1/4"

Diameter if circular

4'-3"

Length as per rule

5'-10 7/8"

Pitch of stays

Are stays fitted with nuts or riveted over

Combustion Chamber

Diameter of stays over thread

Working pressure of back plate by rules

235 lb

Tube Plates: Material

front
back

Tensile strength

Thickness

Mean pitch of stay tubes in nests

If comprising shell, Dia. as per rule

front
back

Pitch in outer vertical rows

Dia. of tube holes FRONT

stay
plain

BACK

stay
plain

Is each alternate tube in outer vertical rows a stay tube

Working pressure by rules

front
back

Girders to combustion chamber tops: Material

Tensile strength

Depth and thickness of girder at centre

Length as per rule

Distance apart

No. and pitch of stays in each

Working pressure by rule



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