

Rpt. 56.

5 SEP 1945

REPORT ON BOILERS.

PRESS

 MD8. RPT. 17965
 No. 18681

Date of writing Report 24th Aug 19 45 When handed in at Local Office 30th Aug 19 45 Port of WEST HARTLEPOOL Received at London Office

 No. of Survey held at
 Reg. Book

WEST HARTLEPOOL

Date, First Survey

24/5/45

Last Survey

3/7/ 1945

(Number of Visits 9)

 Gross 13830
 Net 7401

Built at Haverton Hill

By whom built Furness S.B. Co. Ltd.

Yard No. 388

When built 1945

Engines made at Wallsend-on-Tyne

By whom made N.E. Marine Eng. Co. (1938) Ltd

Engine No. 3115

When made 1945

Press Boilers made at West Hartlepool

By whom made Richardsons, Westgarth & Co

Boiler Nos. 1488-9/44

When made 1945

Owners

Norwegian Shipping & Trade Mission

Port belonging to L.A.N.V.

VERTICAL ~~DONKEY~~ BOILER.

Made at West H'Pool By whom made Richardsons, Westgarth

 Manufacturers of Steel The Steel Company of Scotland, Glasgow,
 & Colvilles Ltd.

Boiler No. See above When made 1945 Where fixed

 Dished ends made by D. Adamson & Co.
 (Dukinfield, M/G.)

Total Heating Surface of Boiler

No. and Description of Boilers Nine Vertical Press Boilers

Tested by hydraulic pressure to 140 lbs/in²

Area of Firegrate in each Boiler

 Area of each set of valves per boiler {
 as fitted.

State whether steam from main boilers can enter the donkey boiler

or woodwork

 Is oil fuel carried in the double bottom under boiler
 Is the base of the boiler insulated

Shell plates: Material Steel

 Are the shell plates welded ~~as above~~ Elec. welded
 butts and seams

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

Pitch of rivets

Percentage of strength of circ. seams

Working

shell by rules

70 lbs. per sq. in. approved

Crown:

Shell Bottom

Tensile strength 26 to 30 tons

Thickness

Crown 15/16"

Bottom 13/16"

Radius 9'-10"

Thickness of butt straps

Material Steel

Working pressure by rules 70 lbs. approved

Thickness

External diameter

Lengths per rule

Pitch of support stays circumferentially

and vertically

Diameter of stays over thread

Radius of spherical or dished furnace crown

Are stays fitted with nuts or riveted over

Thickness of Ogee Ring

Diameter as per rule

Working pressure by rule

Combustion Chamber: Material

Radius if dished

Working pressure by rule

Tensile strength

Length as per rule

Thickness of back plate

Diameter if circular

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

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

Girders to combustion chamber tops: Material

Depth and thickness of girder at centre

Distance apart

No. and pitch of stays in each

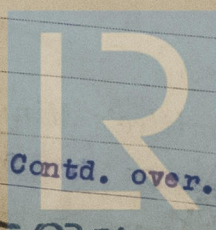
Length as per rule

Working pressure by rule

Contd. over...

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29/9/45.



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Crown stays: Material - Tensile strength - Working pressure by rules - Diameter { body of stay or over threads } No. of threads per inch - Area supported by each stay -

Screw stays: Material - Tensile strength - Working pressure by rules - Diameter { as turned off part or over threads } No. of threads per inch - Area supported by each stay - Are the stays drilled at the outer ends -

Tubes: Material - Pitch of tubes - Working pressure by rules - Angle section - Section of compensating ring - 6" x 4" x 7/8" No. of rivets and diam. - No. of threads per inch -

Manhole Compensation: Size of opening in shell plate 26" square - Depth of flange if manhole flanged 4" deep -

of rivet holes at heel and toe - Elec. welded - Outer row rivet pitch at ends - Thickness of uptake plate -

Uptake: External diameter - Thickness of plates -

Cross Tubes: No. - External diameters -

Have all the requirements of Sections 14 to 22 inclusive for boilers been complied with -

This foregoing is a correct description of the foregoing boiler

Is the approved plan of boiler forwarded herewith (if not state date of approval) Yes

Total No. of visits -

During progress of work in shops - -

During erection on board vessel - -

this Boiler a duplicate of a previous case No If so, state Vessel's name and Report No.

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

These Press Boilers have been constructed under Special Survey in accordance with the approved plan and the Society's Rules, and the materials and workmanship are good.

They have been despatched to Haverton Hill to be fitted on board.

9 Special Certificates (copy of each attached) have been issued.

Enclosures:

9 Special Certificates

Boiler Steel Advice Notes

Survey Fee ... 18: -

Travelling Expenses (if any) ...

When applied for, MONTHEY ACCOUNT

When received, ...

Engineer Surveyor to Lloyd's Register of Shipping.

Committee's Minute

Assigned See F.E. Maibach rpt.

FEB 15 1946