

REPORT ON BOILERS.  
FOR WHALE FACTORY SHIP

MDR RPT. 17965  
No. 103171

Date of writing Report 1<sup>st</sup> Aug 1945 When handed in at Local Office 28. 9. 1945 Port of NEWCASTLE-ON-TYNE

No. in Survey held at WallSEND on Tyne  
Reg. Book  
on the 7<sup>th</sup> NORTHVAL

Date, First Survey 29/ 8/ 44 Last Survey 10/ 8/ 1945  
(Number of Visits) Gross 13830  
Tons Net 7401

Built at Haverston Hill By whom built Furness S.B. Co. Ld  
Engines made at WallSEND on Tyne By whom made N.E. Mar. Eng. Co (1938) Ld  
Boilers made at WallSEND on Tyne By whom made N.E. Mar. Eng. Co (1938) Ld  
Owners Norwegian Shipping & Trade Mission  
Yard No. 388 When built 1945  
Engine No. 3115 When made 1945.  
Boilers Nos. 1454/44, 1486/44, 1487/44, 1491-2-3/44, 1497-8-9/44 When made 1945.  
Port belonging to LARVIN

VERTICAL ~~DONKEY~~ PRESS BOILER.

Made at WallSEND By whom made N.E. Mar. Eng. Co (1938) Ld Boilers Nos. SEE ABOVE.  
Manufacturers of Steel The Steel Company of Scotland Glasgow, & Colvilles Ld, When made 1945 Where fixed Dished ends made by D. ADAMSON & CO DUCKINFIELD, M/F (Steel by Steel Coy. of Scotland)  
Total Heating Surface of Boiler  
No. and Description of Boilers NINE VERTICAL PRESS BOILERS  
Is forced draught fitted  
Coal or Oil fired

Tested by hydraulic pressure to 140 lbs/sq in Date of test 13-4-45, 24-4-45, 27-4-45, 14-5-45, 23-5-45, 30-5-45, 7-6-45, 19-6-45, 23-6-45  
Working pressure 70 lbs/sq in  
No. of Certificate 13598-C26481, 13599-C20482, 13601-C20483, 13604-C20766, 13605-C20767, 13606-C20768, 13607-C20769, 13608-C20770, 13609-C20771

Area of Firegrate in each Boiler  
Area of each set of valves per boiler per rule, as fitted  
Pressure to which they are adjusted  
State whether steam from main boilers can enter the donkey boiler  
Is oil fuel carried in the double bottom under boiler  
Is the base of the boiler insulated  
Largest internal dia. of boiler 9'-10 7/8" Height 20'-0"

Shell plates: Material Steel  
Tensile strength 29-33 tons/sq in Thickness 9/16"

Are the shell plates welded on flanges? Elec. Welded butts & seams.  
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, of Longitudinal joint plate, rivets, combined  
Working pressure of shell by rules 70 lbs/sq in approved

Shell Crown: Whether complete hemisphere, dished partial spherical, dished  
+ shell Bottom. Crown 15/16", Bottom 13/16", Radius 9'-10"  
Tensile strength 26 to 30 tons Thickness  
Material Steel  
Working pressure by rules 70 lbs/sq in approved

Description of Furnace: Plain, spherical, or dished crown  
Thickness  
External diameter top, bottom  
Length as per rule  
Working pressure by rules

Pitch of support stays circumferentially and vertically  
Diameter of stays over thread  
Radius of spherical or dished furnace crown  
Working pressure by rule

Thickness of Ogee Ring  
Diameter as per rule  
Working pressure by rule

Combustion Chamber: Material  
Tensile strength  
Thickness of top plate  
Radius if dished  
Working pressure by rule  
Thickness of back plate  
Diameter if circular

Length as per rule  
Pitch of stays  
Are stays fitted with nuts or riveted over  
Working pressure of back plate by rules

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, 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  
Depth and thickness of girder at centre  
Distance apart  
No. and pitch of stays in each  
Tensile strength  
Length as per rule  
Working pressure by rule

004785-004788-0205

N. H. Clarke. 28/6/45

**Crown stays:** Material ☒ Tensile strength \_\_\_\_\_ Diameter ☒ 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 \_\_\_\_\_ Diameter ☒ at turned off part or over threads \_\_\_\_\_ No. of threads per inch \_\_\_\_\_  
 Area supported by each stay \_\_\_\_\_ Working pressure by rules \_\_\_\_\_ Are the stays drilled at the outer ends \_\_\_\_\_  
**Tubes:** Material ☒ External diameter ☒ plain or stay \_\_\_\_\_ Thickness \_\_\_\_\_ Working pressure by rules \_\_\_\_\_  
 No. of threads per inch \_\_\_\_\_ Pitch of tubes \_\_\_\_\_ Section of compensating ring *26" square* *Anglo Section 4" x 4" x 1/8"* No. of rivets and draught \_\_\_\_\_  
**Manhole Compensation:** Size of opening in shell plate \_\_\_\_\_ of rivet holes *Elec. welded at heel & toe.* Outer row rivet pitch at ends \_\_\_\_\_ Depth of flange if manhole flanged *4" deep.*  
**Uptake:** External diameter \_\_\_\_\_ Thickness of uptake plate \_\_\_\_\_  
**Cross Tubes:** No. ☒ External diameters \_\_\_\_\_ Thickness of plates \_\_\_\_\_  
 Have all the requirements of Sections 14 to 22 inclusive for boilers been complied with ☒

The foregoing is a correct description.  
 THE NORTH-EASTERN MARINE ENGINEERING CO. (1938) LTD.

*John Neill* Manufacture  
 DIRECTOR

Dates of Survey ☒ During progress of work in shops - - *See Monthly report.* Is the approved plan of boiler forwarded herewith ☒ (If not, state date of approval.) *11/11/44.*  
 while building ☒ During erection on board vessel - - Total No. of visits \_\_\_\_\_

Is 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 dispatched to Haverton Hill to be fitted on board.*  
*9 Special Certificates (copy of each attached) have been issued*

Enclosures:-  
 9. Special Certif.  
 Boiler Steel Advice Note

Survey Fee *9. Press Boilers 18 : 0-0* When applied for \_\_\_\_\_ 18  
 Travelling Expenses (if any) £ \_\_\_\_\_ : \_\_\_\_\_ : \_\_\_\_\_ When received \_\_\_\_\_ 18

*A Watt*

Engineer Surveyor to Lloyd's Register of Shipping.

FRI. 15 FEB 1946

Committee's Minute

Assigned

*See F.E. machy. rpt.*



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