

REPORT ON BOILERS.

No. 15598

Received at London Office

3 NOV 1927

7 DEC 1927

Date of writing Report 2. 11. 1927 When handed in at Local Office 2. 11. 1927 Port of Grimby

No. in Survey held at Lincoln Date, First Survey 3. 10. 27 Last Survey 20. 10. 1927

Reg. Book on the M.V. PACIFIC ENTERPRISE (Number of Visits 3) Tons { Gross Net

built at Glasgow By whom built Blythwood L.B. Co Ltd Yard No. 15 When built

engines made at Greenock By whom made J. G. Kincaid & Co Ltd Engine No. 11 When made

boilers made at Lincoln By whom made Babcock & Wilcox Ltd Boiler No. 38/4545 When made 1927

owners Wm. Furness, Withy & Co Ltd Port belonging to

VERTICAL ^{Waste heat} DONKEY BOILER.

made at Lincoln By whom made Babcock & Wilcox Ltd Boiler No. 38/4545 When made 1927 Where fixed

Manufacturers of Steel Tillson, Frodingham & Co Ltd Parkgate J. & L. Co

Total Heating Surface of Boiler 400 sq ft Is forced draught fitted Coal or Oil fired Waste Heat

No. and Description of Boilers Clark's Patent Waste Heat, Thimble Tube Type Working pressure 100 lb

tested by hydraulic pressure to 200 lb Date of test 13-10-27 No. of Certificate 220

Area of Firegrate in each Boiler No. and Description of safety valves to each boiler Two 1 1/2" Spring loaded

Area of each set of valves per boiler { per rule 3.5342 as fitted 3.5342 Pressure to which they are adjusted not adjusted 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

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 5'-0" Height 8'-7 3/8"

Shell plates: Material S. M. steel Tensile strength 28/32 Tons Thickness 7/16"

Are the shell plates welded or flanged Description of riveting: circ. seams { end S. R. Lap. inter. " " " long. seams D. R. Butt Straps

Dia. of rivet holes in { circ. seams 13/16 Pitch of rivets 2 1/4" Percentage of strength of circ. seams { plate 38.5% rivets 47.7% Longitudinal joint { plate 72.9% rivets 117% combined

Working pressure of shell by rules 148 lb Thickness of butt straps { outer 3/8" inner 7/16"

Shell Crown: Whether complete hemisphere, dished partial spherical, or flat Flat Material S. M. steel

Tensile strength 26/32 T. Thickness 5/8" Radius Working pressure by rules 149 lb.

Description of Furnace: Plain, spherical, or dished crown dished crown Material S. M. steel Tensile strength 26/32 T.

Thickness 13/16 External diameter { top 4'-15 1/8" bottom 4'-15 1/8" Length as per rule 5'-4 3/4" Working pressure by rules 100 lb

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 3'-9" Working pressure by rule

Thickness of Ogee Ring Diameter as per rule { D. Working pressure by rule

Combustion Chamber: Material S. M. steel Tensile strength 26/30 T Thickness of top plate

Radius if dished Working pressure by rule Thickness of back plate 3/8" Diameter if circular 4'-8 1/4"

Length as per rule Pitch of stays Are stays fitted with nuts or riveted over

Diameter of stays over thread Working pressure of back plate by rules

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 Working pressure by rules { front back

Orders to combustion chamber tops: Material Tensile strength

Width and thickness of girder at centre Length as per rule

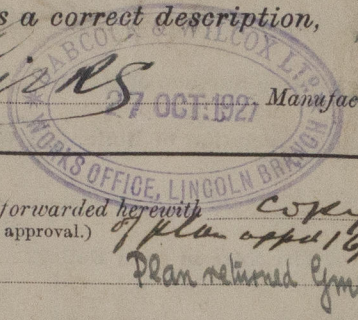
Distance apart No. and pitch of stays in each Working pressure by rule

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 S. M. steel ☒ INTL. External diameter { plain 3 1/4 ☒ or stay 2 3/4 ☒ Thickness { 6/16 ☒
 No. of threads per inch ☒ Pitch of tubes 3 1/2" vertical ☒ Working pressure by rules ☒
Manhole Compensation: Size of opening in shell plate ☒ Section of compensating ring ☒ No. of rivets and diam. of rivet holes ☒ Outer row rivet pitch at ends ☒ Depth of flange if manhole flanged ☒
Uptake: External diameter 2'-4 3/4" Thickness of uptake plate 1 1/16"
Cross Tubes: No. ☒ External diameters { ☒ Thickness of plates ☒
 Have all the requirements of Sections 14 to 23 inclusive for boilers been complied with yes.

Survey Request - Annual

The foregoing is a correct description,

W. H. Allen



Dates of Survey { During progress of work in shops - 1927 Oct 3. 13. 20.
 while building { During erection on board vessel - -

Is the approved plan of boiler forwarded herewith (If not state date of approval.)

Total No. of visits 3

GENERAL REMARKS (State quality of workmanship, opinions as to class, &c.) This Bunker Boiler has been built under special survey and in accordance with the approved plans. The materials and workmanship are good. This boiler is eligible for notation when fitted in a classed vessel.

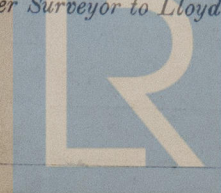
Survey Fee ... £ 4 : 4 : 0 When applied for, 18/10/27
 Travelling Expenses (if any) £ 9 : 8 : 0 When received, 31/10/27

W. H. Allen

Engineer Surveyor to Lloyd's Register of Shipping.

Committee's Minute GLASGOW 6- DEC 1927

Assigned See Greenock Report 18/10/27



Lloyd's Register Foundation