

5b.

REPORT ON BOILERS.

No. 15919

19 11 1928

Received at London Office

Date of writing Report 17 7 19 28 When handed in at Local Office 17 7 19 28 Port of Grimshy
 No. in Survey held at Grimshy Date, First Survey 28-6-28 Last Survey 13-7-1928
 No. of Book 52 of the Donkey Boiler for M.S. SLIEDRECHT (Number of Visits 3) Gross 4647 Tons Net 2642
 Made at Rotterdam By whom built Rotterdam Droog Maat Yard No. _____ When built 1924-9
 Engines made at Glasgow By whom made Harland & Wolff Ltd Engine No. _____ When made 1924
 Boilers made at Leicestershire By whom made Babcock & Wilcox Ltd Boiler No. 69/128 When made 1928
 Owners Stoom Maats "De Maas" Port belonging to Rotterdam
 Agents N.V. Phos van Ommerens Scheepv. Bedrijf

VERTICAL DONKEY BOILER.

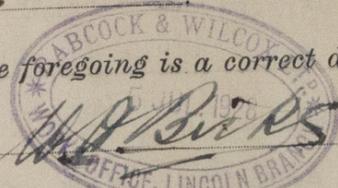
Made at Leicestershire By whom made Babcock & Wilcox Ltd Boiler No. 69/128 When made 1928 Where fixed _____
 Manufacturers of Steel Parkgate 7 & S. Co. Ltd
 Total Heating Surface of Boiler 1217 sq ft Is forced draught fitted no Coal or Oil fired Waste Heat
 Name and Description of Boilers One, Spence, Multitubular, Waste Heat Working pressure 147 lbs
 Tested by hydraulic pressure to 263 lbs Date of test 13/7/28 No. of Certificate 236
 Area of Firegrate in each Boiler _____ No. and Description of safety valves to each boiler _____
 Area of each set of valves per boiler { per rule _____ as fitted 15.32 Pressure to which they are adjusted not adj'd Are they fitted with easing gear ye
 State whether steam from main boilers can enter the donkey boiler _____ Smallest distance between boiler or uptake and bunkers _____
 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 13'-6"
 Shell plates: Material S.L. steel Tensile strength 28/32 T Thickness 1/2"
 Are the shell plates welded or flanged no Description of riveting: circ. seams { end S.R. long. seams D.R. D.B.S. inter. D.R.
 Dia. of rivet holes in { circ. seams 7/8" x 15/16" Pitch of rivets { 3 1/2" x 3 5/16" Percentage of strength of circ. seams { plate 54.45 of Longitudinal joint { rivets 82 rivets 71.6 combined 89
 Working pressure of shell by rules 184 lbs Thickness of butt straps { outer 1/2" inner 1/2"
 Shell Crown: Whether complete hemisphere, dished partial spherical, or flat _____ Material _____
 Tensile strength _____ Thickness _____ Radius _____ Working pressure by rules _____
 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 _____ Diameter as per rule { D _____ d _____ 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 _____
 Diameter of stays over thread _____ Working pressure of back plate by rules _____
 Tube Plates: Material { front S.L. steel back _____ Tensile strength { 26/30 T Thickness { 3/4" Mean pitch of stay tubes in nests 7 1/2"
 of comprising shell, Dia. as per rule { front _____ back _____ Pitch in outer vertical rows { 2 1/2" Dia. of tube holes FRONT { stay 1 13/16" BACK { stay 1 13/16" plain 1 1/2" plain 1 5/8"
 Is each alternate tube in outer vertical rows a stay tube no Working pressure by rules { front 380 lbs 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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Crown stays: Material Tensile strength Diameter { at body of stay, 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.P. L.S.* External diameter { plain *1 1/2"* Thickness *10* stay *1 5/8"* *1/4"*
 No. of threads per inch *9* Pitch of tubes *2 1/2"* Working pressure by rules *350 lb.*
Manhole Compensation: Size of opening in shell plate *18" x 13"* Section of compensating ring *5 5/16" x 3/4"* No. of rivets and dia
 of rivet holes *52* *13/16"* Outer row rivet pitch at ends *3.16"* 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 14 to 23 inclusive for boilers been complied with *yes*

The foregoing is a correct description,

 Manufactured

Request form received,
 See Hon. ltr "E" 13/6/28

Dates of Survey { During progress of work in shops - *1928 Jun 28 Jul 10 13* Is the approved plan of boiler forwarded herewith (if not state date of approval.) *yes*
 while building { During erection on board vessel - - } Total No. of visits *3*

GENERAL REMARKS (State quality of workmanship, opinions as to class, &c.) *The materials and workmanship are good. This boiler has been built under special survey and in accordance with the Rules and approved plan. It is to be shipped to Rotterdam to be fitted in the above vessel.*

Survey Fee ... £ 8 : 0 : 0 When applied for, *17 7 19 28*
 Travelling Expenses (if any) £ 1 : 0 : 0 When received, *1-9-28*

W. G. K. ...
 Engineer Surveyor to Lloyd's Register of Shipping

Committee's Minute **TUE. 18 DEC 1928**
 Assigned

