

REPORT ON BOILERS.

No. 18166^d

11 FEB 1929

Received at London Office

Date of writing Report 29-1-1929 When handed in at Local Office 19 Port of Rotterdam

No. in Survey held at Flushing Date, First Survey 13/2 28 Last Survey 14/11 28 1928

Reg. Book Heel senen M.V. KOTA BAROE (Number of Visits 11) Gross Tons Net Tons

Built at Flushing By whom built Hon Mr. De Schelde Yard No. 185 When built 1929

Engines made at Flushing By whom made Hon Mr. De Schelde Engine No. 389 When made 1929

Boilers made at Flushing By whom made Hon Mr. De Schelde Boiler No. 995 When made 1929

Owners Menn. Rotterdamse Lloyd Port belonging to Rotterdam

VERTICAL DONKEY BOILER.

Made at Flushing By whom made Hon Mr. De Schelde Boiler No. 995 When made 1928 Where fixed Engine Room

Manufacturers of Steel Davies Colville & Son.

Total Heating Surface of Boiler 600 sq ft Is forced draught fitted yes Coal or Oil fired Oil

No. and Description of Boilers One Cochran boiler Working pressure 95 lbs

Tested by hydraulic pressure to 190 lbs Date of test 27-9-28 No. of Certificate 894

Area of Firegrate in each Boiler ✓ No. and Description of safety valves to each boiler 2 Spring loaded

Area of each set of valves per boiler per rule 7696 sq in Pressure to which they are adjusted 95 lbs 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 ✓ Smallest distance between base of boiler and tank top plating

Is the base of the boiler insulated ✓ Largest internal dia. of boiler 4'-0" Height 17'-3"

Shell plates: Material S.M. Steel Tensile strength 28-32 tons Thickness 19/32"

Are the shell plates welded or flanged No Description of riveting: circ. seams end 2x riv. lap long. seams 2x riv. lap

Dia. of rivet holes in circ. seams 1" Pitch of rivets 3" Percentage of strength of circ. seams plate 66% of Longitudinal joint plate 66%

Working pressure of shell by rules 124 lbs Thickness of butt straps outer 1/2" inner 1/2"

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

Tensile strength 26-30 tons Thickness 3/4" Radius 6'-0" Working pressure by rules 121 lbs

Description of Furnace: Plain, spherical, or dished crown Spherical Material S.M. Steel Tensile strength 26-30 tons

Thickness 5/8" External diameter top 4'-0" bottom 4'-0" 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 3' Working pressure by rule 145 lbs

Thickness of Ogee Ring 27/32" Diameter as per rule 4'-0" Working pressure by rule 144 lbs

Combustion Chamber: Material S.M. Steel Tensile strength 26-30 tons Thickness of top plate 27/32"

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 S.M. Steel Tensile strength 26-30 tons Thickness 17/32" Mean pitch of stay tubes in nests 11/4" x 8"

If comprising shell, Dia. as per rule front 8" Pitch in outer vertical rows 8" Dia. of tube holes FRONT stay 2 3/4" BACK stay 2 3/4"

Is each alternate tube in outer vertical rows a stay tube yes Working pressure by rules front 310 lbs back 255 lbs

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 ✓

See Sec. 11-5-28.

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 Iron ☒ External diameter { plain 2 1/2" stay 2 1/2" Thickness { Nº 10 W.G. 5/16 No. of threads per inch 10 ☒ Pitch of tubes 3 3/4 x 4" ☒ Working pressure by rules 175 lbs ☒ Manhole Compensation: Size of opening in shell plate 16 x 12" Section of compensating ring 32 x 28" No. of rivets and diameter of rivet holes 40 x 1" Outer row rivet pitch at ends 4" Depth of flange if manhole flanged 2 1/2" 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 _____

The foregoing is a correct description,
KON. MY. "DE SCHELDE".
Flushing, 6th February 1929. *H. P. Messeluy* Manufacturer.

Dates of Survey { During progress of work in shops - 23/2 28/3 13/4 16/5 6/6 27/7 14/8 17-27/9 Is the approved plan of boiler forwarded herewith Retained (If not state date of approval.) while building { During erection on board vessel - 25/10 12/11 29 20 Total No. of visits 11

GENERAL REMARKS (State quality of workmanship, opinions as to class, &c.) This boiler has been built under special survey, in accordance with the approved plan Society's Rules and Secretary's letters, material tested as required and workmanship good

Survey Fee ... £ 50.00 When applied for, 4/2 19 29
Travelling Expenses (if any) £ : : When received, 13/2 19 29

Committee's Minute FRI. 15 FEB 1929
Assigned See Sept. attached

