

REPORT ON BOILERS.

No. 23510

Received at London Office 25 FEB 1935

Date of writing Report 18-11-1934 When handed in at Local Office

192 Port of Rotterdam.

No. in Survey held at Rotterdam Date, First Survey 30 May Last Survey 22 Nov 1934.

Book. on the Donkey boiler M.V. "SUNETTA" (Number of Visits 16) Tons { Gross 1984 Net 4764

ster Built at Rotterdam By whom built Rott. Droogd. No. 186 When built 1934.

ines made at Hengelo By whom made Gebr. Stork Engine No. When made 1934.

lers made at Rotterdam By whom made Rott Droogd My Boiler No. 510 When made 1934

inal Horse Power 502. Owners Pet. My. La Coura Port belonging to Gravenhage.

MULTITUBULAR BOILERS—~~MAIN~~, ~~AUXILIARY~~, OR DONKEY.

Manufacturers of Steel Steel Company of Scotland (Letter for Record S)

al Heating Surface of Boilers 2560 sq ft Is forced draught fitted Yes Coal or Oil fired O.l.

and Description of Boilers One Multitubular Marine boiler Working Pressure 180 lbs

ted by hydraulic pressure to 320 lbs Date of test 22-11-34 No. of Certificate 966 Can each boiler be worked separately

a of Firegrate in each Boiler No. and Description of safety valves to each boiler 2 spring loaded

a of each set of valves per boiler per Rule 19-660 Pressure to which they are adjusted 180 lbs Are they fitted with easing gear Yes

ase of donkey boilers, state whether steam from main boilers can enter the donkey boiler No main boilers

llest distance between boilers or uptakes and bunkers or woodwork Is oil fuel carried in the double bottom under boilers

llest distance between shell of boiler and tank top plating Boiler in Tween decks the bottom of the boiler insulated Yes

gest internal dia. of boilers 4400 mm Length 3468 mm Shell plates: Material S.M. Steel Tensile strength 29-33 tons

ickness 29 mm Are the shell plates welded or flanged No Description of riveting: circ. seams end Lap 2 x riv. inter.

. seams Double butt 3 x riv Diameter of rivet holes in circ. seams 30 mm Pitch of rivets 87 mm

centage of strength of circ. end seams plate 65.5% rivets 46% Percentage of strength of circ. intermediate seam plate rivets

centage of strength of longitudinal joint plate 85% rivets 84% combined 87% Working pressure of shell by Rules 12.8 kg/cm²

ickness of butt straps outer 25 mm inner 20 mm No. and Description of Furnaces in each Boiler 3 Morrison Patent

erial S.M. Steel Tensile strength 40-44 kg/cm² 26-30 tons Smallest outside diameter 1130 mm

pth of plain part top Thickness of plates crown 15 mm Description of longitudinal joint Welded

ensions of stiffening rings on furnace or c.c. bottom Working pressure of furnace by Rules 13.22 kg/cm²

plates in steam space: Material S.M. Steel Tensile strength 41-47 kg/cm² Thickness 29.5 mm Pitch of stays 440 x 450 mm

are stays secured Screwed in plates with nuts outside Working pressure by Rules 12.65 kg/cm²

e plates: Material front S.M. Steel Tensile strength 26-30 tons Thickness 23 mm

back S.M. Steel Tensile strength 41-47 kg/cm² Thickness 22 mm

n pitch of stay tubes in nests 196 x 300 mm Pitch across wide water spaces 360 mm Working pressure front 15.33 kg/cm² back

lers to combustion chamber tops: Material S.M. Steel Tensile strength 44-50 kg/cm² Depth and thickness of girder

entre 120 x 2 x 19 mm Length as per Rule 776 mm Distance apart 220 mm No. and pitch of stays

ach 3 à 200 mm Working pressure by Rules 17.27 kg/cm² Combustion chamber plates: Material S.M. Steel

ile strength 41-47 kg/cm² Thickness: Sides 10 mm Back 19 mm Top 18 mm Bottom 25 mm

of stays to ditto: Sides 200 mm Back 200 x 19 mm Top 200 x 220 Are stays fitted with nuts or riveted over Riveted over.

king pressure by Rules 15.3 kg/cm² Front plate at bottom: Material S.M. Steel Tensile strength 41-47 kg/cm²

ickness 23 mm Lower back plate: Material S.M. Steel Tensile strength 41-47 kg/cm² Thickness 23 mm

of stays at wide water space 366 mm Are stays fitted with nuts or riveted over Fitted with nuts

king Pressure 17.7 kg/cm² Main stays: Material S.M. Steel Tensile strength 44-50 kg/cm²

eter At body of stay, 3" No. of threads per inch 9 Area supported by each stay 198000 mm²

Over threads 3 1/4" Screw stays: Material S.M. Steel Tensile strength 41-47 kg/cm²

king pressure by Rules 15.5 kg/cm² No. of threads per inch 9 Area supported by each stay 40000 mm²

eter At turned off part, 1 3/8" No. of threads per inch 9 Area supported by each stay 40000 mm²

Over threads 1 1/2" No. of threads per inch 9 Area supported by each stay 40000 mm²

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Working pressure by Rules 14.1 1/2 Are the stays drilled at the outer ends yes Margin stays: Diameter { At turned off part, 1 1/16 or 1 7/8 Over threads }
 No. of threads per inch 9 Area supported by each stay 5000 lb. sq. in. Working pressure by Rules 14.2 1/2
 Tubes: Material Iron External diameter { Plain 2 3/4 Stay 2 3/4 Thickness { 1 1/16 1 1/16 No. of threads per inch 9
 Pitch of tubes 90 x 100 mill Working pressure by Rules 215 lbs Manhole compensation: Size of opening
 shell plate 370 x 470 mill Section of compensating ring 780 x 880 x 1/2 No. of rivets and diameter of rivet holes 54 x 32 mill
 Outer row rivet pitch at ends 2.20 mill Depth of flange if compensating flanged 100 mill Steam Dome: Material Iron
 Tensile strength ✓ Thickness of shell ✓ Description of longitudinal joint ✓
 Diameter of rivet holes ✓ Pitch of rivets ✓ Percentage of strength of joint { Plate ✓ Rivets ✓
 Internal diameter ✓ Working pressure by Rules ✓ Thickness of crown ✓ No. and diameter of stays ✓
 Inner radius of crown ✓ Working pressure by Rules ✓
 How connected to shell ✓ Size of doubling plate under dome ✓ Diameter of rivet holes and of rivets in outer row in dome connection to shell ✓
 Type of Superheater ✓ Manufacturers of { Tubes ✓ Steel castings ✓
 Number of elements ✓ Material of tubes ✓ Internal diameter and thickness of tubes ✓
 Material of headers ✓ Tensile strength ✓ Thickness ✓ Can the superheater be shut off the boiler be worked separately ✓
 Is a safety valve fitted to every part of the superheater which can be shut off from the boiler ✓
 Area of each safety valve ✓ Are the safety valves fitted with easing gear ✓ Working pressure a Rules ✓
 Pressure to which the safety valves are adjusted ✓ Hydraulic test pressure tubes ✓, castings ✓ and after assembly in place ✓ Are drain cocks or valves to free the superheater from water where necessary ✓
 Have all the requirements of Sections 14 to 23 inclusive for boilers been complied with ✓

The foregoing is a correct description,

Director, J. Knappe

Dates of Survey { During progress of work in shops - - - 30/1/20/29/4/9/20/28/1/13 Are the approved plans of boiler and superheater forwarded herewith ✓ (If not state date of approval.)
 while building { During erection on board vessel - - - 1/9/24/9/29/2/22 Total No. of visits 16

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

Survey Fee 104.80
 Travelling Expenses (if any) £ : : 18.3

When applied for, 23.2.1935
 When received, 18.3.1935

J. J. Ochoa
 Engineer Surveyor to Lloyd's Register of Ships

Committee's Minute FRI. 8 MAR 1935

Assigned See minute on
Robt. J.E. Inchy Rph.



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