

REPORT ON BOILERS.

No. 17529

Received at London Office 7 JUN 1928

of writing Report 29-5 1928 When handed in at Local Office 192 Port of Rotterdam

in Survey held at Rotterdam Date, First Survey 8.3-1928 Last Survey 11-5-1928

on the Boilers No. 468-469 (Number of Visits 12) Tons { Gross Net

ster Built at Monfalcone By whom built Cantieri Nautici Triest Yard No. ? When built 1920

ines made at Rotterdam By whom made Rott. Drooydok My Engine No. 167/68 When made 1920

lers made at Rotterdam By whom made Rott. Drooydok My Boiler No. 468/69 When made 1920

inal Horse Power 236 Owners Curacaense Scheep. My Port belonging to Willemstad.

MULTITUBULAR BOILERS—MAIN, AUXILIARY, OR DONKEY.

Manufacturers of Steel Mems. Witkowitz Berg. & Eisenb. Gewerkschaft (Letter for Record S)

al Heating Surface of Boilers 4160 sq. ft. Is forced draught fitted Yes Coal or Oil fired oil

and Description of Boilers 2 single ended Multitubular Marine Boilers Working Pressure 100 lbs

ted by hydraulic pressure to 320 lbs Date of test 11-5-28 No. of Certificate 884 Can each boiler be worked separately Yes

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

a of each set of valves per boiler { per Rule as fitted 70 mm diam. Pressure to which they are adjusted Are they fitted with easing gear Yes

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

llest distance between boilers or uptakes and bunkers or woodwork Is oil fuel carried in the double bottom under boilers No

llest distance between shell of boiler and tank top plating Is the bottom of the boiler insulated Yes

gest internal dia. of boilers 13' 0" Length 12' 8" Shell plates: Material S.M. steel Tensile strength 28-32 tons

ickness 1 3/32" Are the shell plates welded or flanged No Description of riveting: circ. seams { end lap 2 x riv. inter. 3 1/16" 50°F. seams Butte butt 3 x riv. Diameter of rivet holes in { circ. seams 1 3/16" Pitch of rivets { 8 1/8" long. seams 1 3/16"

centage of strength of circ. end seams { plate 62.9% rivets 58.5% Percentage of strength of circ. intermediate seam { plate rivets

centage of strength of longitudinal joint { plate 85.4% rivets 88% Working pressure of shell by Rules 195 lbs. combined 88.2%

ickness of butt straps { outer 7/8" inner 1" No. and Description of Furnaces in each Boiler 2 Maism's Patent 2 cf

erial S.M. steel Tensile strength 26-30 tons Smallest outside diameter 3' 11 7/8"

th of plain part { top bottom Thickness of plates { crown 2 1/32" bottom 1/32" Description of longitudinal joint Welded

ensions of stiffening rings on furnace or c.c. bottom Working pressure of furnace by Rules 200 lbs

l plates in steam space: Material S.M. steel Tensile strength 26-30 tons Thickness 1 1/8" Pitch of stays 17" x 16"

are stays secured screwed in plates and nutted outside Working pressure by Rules 210 lbs

e plates: Material { front S.M. steel Tensile strength { 26-30 tons Thickness { 1 3/16" back S.M. steel 26-30 tons 3/4"

n pitch of stay tubes in nests 8"-12" Pitch across wide water spaces 14 3/4" Working pressure { front 197 lbs back 185 lbs

lers to combustion chamber tops: Material S.M. steel Tensile strength 28-32 tons Depth and thickness of girder

entre 8 1/2" x 2 x 3/4" Length as per Rule 2' 7 1/2" Distance apart 8 1/2" No. and pitch of stays

ch 2 a 10" Working pressure by Rules 290 lbs Combustion chamber plates: Material S.M. steel

ile strength 26-30 tons Thickness: Sides 7/8" Back 3/4" Top 7/8" Bottom 7/8"

i of stays to ditto: Sides 9 3/4" x 10" Back 8 x 7 3/4" Top 10" x 8 1/2" Are stays fitted with nuts or riveted over riveted over

ing pressure by Rules 207 lbs Front plate at bottom: Material S.M. steel Tensile strength 26-30 tons

ness 1 3/16" Lower back plate: Material S.M. steel Tensile strength 26-30 tons Thickness 3/4"

of stays at wide water space 15 1/8" Are stays fitted with nuts or riveted over Fitted with nuts

ing Pressure 312 lbs Main stays: Material S.M. steel Tensile strength 26-30 tons

eter { At body of stay, 2 1/2" No. of threads per inch 9 Area supported by each stay 272 sq. in. Over threads 1 3/4"

ing pressure by Rules 205 lbs Screw stays: Material S.M. steel Tensile strength 26-30 tons

eter { At turned off part, 1 3/8" No. of threads per inch 9 Area supported by each stay 97.5-62-05 sq. in. Over threads 1 1/2"

Working pressure by Rules ¹⁸⁵202 lbs Are the stays drilled at the outer ends *No* Margin stays: Diameter { At turned off part, ^{1 5/8"}1 3/4" or Over threads ^{1 3/4"}1 3/4" No. of threads per inch ²¹²9 Area supported by each stay ⁸⁰00 sq" Working pressure by Rules ²¹⁶216 lbs
Tubes: Material *Steel* External diameter { Plain ^{2 3/4"}2 3/4" Stay ^{2 3/4"}2 3/4" Thickness { ^{No. 8. L. S. S.}2 3/4" 3/16" No. of threads per inch ⁹9
Pitch of tubes ^{4"}4" Working pressure by Rules ²⁰⁷207 lbs Manhole compensation: Size of opening ⁷⁰¹⁸42 a 1 3/16"
shell plate ^{20 3/4" x 16 3/4"}20 3/4" x 16 3/4" Section of compensating ring ^{8 1/4" x 1 1/8"}8 1/4" x 1 1/8" No. of rivets and diameter of rivet holes ^{42 a 1 3/16"}42 a 1 3/16"
Outer row rivet pitch at ends ^{7 1/4"}7 1/4" Depth of flange if ^{ring}mandrel flanged ^{3 1/2"}3 1/2" Steam Dome: Material *✓*
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 rivets *✓*
stays *✓* Inner radius of crown *✓* Working pressure by Rules *✓* Diameter of rivet holes and
How connected to shell *✓* Size of doubling plate under dome *✓* 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 from the boiler *✓*
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 as tested *✓*
Rules *✓* Pressure to which the safety valves are adjusted *✓* Hydraulic test pressure *✓*
tubes *✓* castings *✓* and after assembly in place *✓* Are drain cocks or valves fitted to free the superheater from water where necessary *✓*

Have all the requirements of Sections 14 to 23 inclusive for boilers been complied with *yes*

The foregoing is a correct description.

ROTTERDAMSCHЕ BROEDER MAATSCHAPPIJ

Dates of Survey { During progress of work in shops - - 8.15-19/28 3.6.15.29/28 Are the approved plans of boiler and superheater forwarded herewith *✓*
while building { During erection on board vessel - - 1.5.5.10.11/28 (If not state date of approval.) *in handson office*
Total No. of visits *12*

GENERAL REMARKS (State quality of workmanship, opinions as to class, &c.) *These boilers have been made in accordance with the Society's Rules Secretary's letter and approved plans, material tested as required and workmanship good tested by hydraulic pressure as required by the Rules and found sound and tight.*

A. Copy of this report has been forwarded to the Trust Surveyors.

Survey Fee ... £ *203.20* When applied for, *16* 192*5*
Travelling Expenses (if any) £ *9.00* When received, *15.6.* 192*8*

Committee's Minute

Assigned



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