

Rpt. 5a.

REPORT ON BOILERS.

No. 8045

17 AUG 1928

Received at London Office

Date of writing Report 4/8/28 When handed in at Local Office 6/8/28 Port of Trieste

No. in Survey held at 7018 on the SS Luceria

Date, First Survey July 2

Last Survey July 25 1928

(Number of Visits 5) Gross 2584 Tons Net 1717

Master Built at Monfalcone By whom built Cantiere Nav. Triest Yard No. 203 When built 1928

Engines made at Rotterdam By whom made Ratt. Droogdock Nuy Engine No. 167/68 When made 1928

Boilers made at Rotterdam By whom made Ratt. Droogdock Nuy Boiler No. 468/69 When made 1928

Nominal Horse Power 236 Owners Curacao'sche Scheepvaart Nuy Port belonging to Willemstad

See also Rotterdam Report 29.5.28

MULTITUBULAR BOILERS - MAIN, AUXILIARY, OR DONKEY.

Manufacturers of Steel Witrowitzer B & E. Gewerkschaft (Letter for Record S)

Total Heating Surface of Boilers 4168 sq ft Is forced draught fitted yes Coal or Oil fired oil

No. and Description of Boilers Two single ended multitubular marine 2SB Working Pressure 180 lbs

Tested by hydraulic pressure to 320 lbs Date of test 11.5.28 No. of Certificate 884 Can each boiler be worked separately yes

Area of Firegrate in each Boiler oil No. and Description of safety valves to each boiler Two high lifting spring loaded

Area of each set of valves per boiler per Rule - as fitted 14.86 sq ft Pressure to which they are adjusted 185 lbs Are they fitted with easing gear yes

In case of donkey boilers, state whether steam from main boilers can enter the donkey boiler -

Smallest distance between boilers or uptakes and bunkers or woodwork - Is oil fuel carried in the double bottom under boilers no

Smallest distance between shell of boiler and tank top plating no tank Is the bottom of the boiler insulated yes

Largest internal dia. of boilers 13' 0" Length 12' 3" Shell plates: Material SPM Tensile strength 28-32 T

Thickness 1 3/32 Are the shell plates welded or flanged no Description of riveting: circ. seams end lap 2.2.

Long. seams Double butt ribble Diameter of rivet holes in circ. seams 13/16" Pitch of rivets 3 13/16"

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

Percentage of strength of longitudinal joint plate 85.4% rivets 88% Working pressure of shell by Rules 195 lbs

Thickness of butt straps outer 7/8" inner 1" No. and Description of Furnaces in each Boiler Two Main ones 2cf.

Material SPM Tensile strength 26-30 T Smallest outside diameter 3' 11 7/8"

Length of plain part top - bottom - Thickness of plates crown 2 1/32 Description of longitudinal joint welded

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

End plates in steam space: Material SPM Tensile strength 26-30 T Thickness 1 1/8" Pitch of stays 17" x 16"

How are stays secured Recessed in plate and nutted outside Working pressure by Rules 210 lbs

Tube plates: Material front SPM Tensile strength 26-30 T Thickness 13/16"

lean pitch of stay tubes in nests 8" x 12" Pitch across wide water spaces 14 3/4 Working pressure back 185 lbs

Girders to combustion chamber tops: Material SPM Tensile strength 28-32 T Depth and thickness of girder

at centre 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

each 2 a 10" Working pressure by Rules 290 lbs Combustion chamber plates: Material SPM

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

Pitch 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 welded over

Working pressure by Rules 207 lbs Front plate at bottom: Material SPM Tensile strength 26-30 T

Thickness 13/16" Lower back plate: Material SPM Tensile strength 26-30 T Thickness 3/4"

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

Working Pressure 312 lbs Main stays: Material SPM Tensile strength 26-30 T

Diameter At body of stay, 2 1/2" No. of threads per inch 9 Area supported by each stay 272 sq in

Over threads 2 3/4 Working pressure by Rules 203 lbs Screw stays: Material SPM Tensile strength 26-30 T

Diameter At turned off part, 1 3/8" No. of threads per inch 9 Area supported by each stay 97.5, 62, 85 sq in

Over threads 1 1/2

Working pressure by Rules 185, 202-212 Are the stays drilled at the outer ends no Margin stays: Diameter { At turned off part, 1 5/8"
or 1 3/4"
Over threads
No. of threads per inch 9 Area supported by each stay 80 sq" Working pressure by Rules 216 lbs
Tubes: Material steel External diameter { Plain 2 3/4" Thickness { No 8 LSG
2 1/64" - 9/32" No. of threads per inch 9
Pitch of tubes 4" Working pressure by Rules 207 lbs Manhole compensation: Size of opening
shell plate 20 3/4 x 16 3/4 Section of compensating ring 8 1/4 x 8 1/8 No. of rivets and diameter of rivet holes 42 at 1 3/16
Outer row rivet pitch at ends 7 1/4 Depth of flange if ring flanged 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
stays Inner radius of crown Working pressure by Rules
How connected to shell Size of doubling plate under dome Diameter of rivet holes and pitch
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 and
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 per
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
The foregoing is a correct description,
Manufactured

Dates of Survey { During progress of work in shops - - -
while building { During erection on board vessel - - -
Are the approved plans of boiler and superheater forwarded herewith
(If not state date of approval.)
Total No. of visits Five

GENERAL REMARKS (State quality of workmanship, opinions as to class, &c.)

These Boilers have been built at Rotterdam under special survey and satisfactorily fitted on board this vessel by the Cantieri Navale Triestino at Monfalcone. The installation for oil fuel has been fitted as per approved plans and in accordance with requirements of Sect. 49 of the Rule 1921-22

Survey Fee ... See Machinery Report When applied for, 192
Travelling Expenses (if any) ... When received, 192

Committee's Minute FRI. 31 AUG 1928

Assigned See Minute on
Tri Rpt 1928

R. H. Sparrow
Engineer-Surveyor to Lloyd's Register of Shipping



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Foundation