

REPORT ON BOILERS.

No. 15964

Received at London Office

15 DEC 1926

Date of writing Report 5-13-1926 When handed in at Local Office

192

Port of Rotterdam

No. in
Reg. Book.

Survey held at Rotterdam & Schiedam Date, First Survey 3-4

Last Survey 30th Nov. 1926

on the S/S Thuy Gman

(Number of Visits 14.)

Tons

Gross
Net

Master

Built at Schiedam

By whom built

Wilton's Eng & Ship Co. No. 313 When built 1926

Engines made at

Rotterdam

By whom made

Wilton's Eng & Ship Comp.

Engine No

440 When made 1926

Boilers made at

Rotterdam

By whom made

Wilton's Eng & Ship Comp.

Boiler No

755/756 When made 1926

Nominal Horse Power

202

Owners

Hoop Eng & Ship Co

Port belonging to

Singapore

MULTITUBULAR BOILERS—MAIN, AUXILIARY, OR DONKEY.

Manufacturers of Steel Messrs. Mannesmann Werke AG & Schuckhardt (Letter for Record)

Total Heating Surface of Boilers 3570 sq ft

Is forced draught fitted No

Coal or Oil fired Coal

No. and Description of Boilers 2 Multitubular Main Single ended

Working Pressure 100 lb.

Tested by hydraulic pressure to 320 lb. Date of test 13-0-26 No. of Certificate 045 Can each boiler be worked separately Yes

Area of Firegrate in each Boiler 53.5 sq ft No. and Description of safety valves to each boiler 2 Spring loaded

Area of each set of valves per boiler {per Rule as fitted 3 3/4" = 1105 Pressure to which they are adjusted 100 lb. 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 over 2 feet Is oil fuel carried in the double bottom under boilers No

Smallest distance between shell of boiler and tank top plating 1 ft. Is the bottom of the boiler insulated No

Largest internal dia. of boilers 18' 6" Length 10' 6" Shell plates: Material S.M. Steel Tensile strength 29-33 tons

Thickness 1 3/32" Are the shell plates welded or flanged Description of riveting: circ. seams end lap 2x welded

long. seams Double butt strap 3 times diameter of rivet holes in circ. seams 1 3/16" Pitch of rivets 3 1/2" 7/16"

Percentage of strength of circ. end seams {plate 66% rivets 45.5% Percentage of strength of circ. intermediate seam {plate rivets

Percentage of strength of longitudinal joint {plate 84.9% rivets 95.4% combined 80.7% Working pressure of shell by Rules 190 lbs.

Thickness of butt straps {outer 1 1/16" inner 1 1/16" No. and Description of Furnaces in each Boiler 3 C.F. Thomson patent

Material S.M. Steel Tensile strength 26-30 tons Smallest outside diameter 3' 1 5/8"

Length of plain part {top bottom Thickness of plates {crown 1/4" bottom 1/2" Description of longitudinal joint welded

Dimensions of stiffening rings on furnace or c.c. bottom Working pressure of furnace by Rules 191 lbs.

End plates in steam space: Material S.M. Steel Tensile strength 26-30 tons Thickness 1 1/4" Pitch of stays 17" x 20"

How are stays secured Head on plates nuts outside Working pressure by Rules 109 lbs.

Tube plates: Material {front S.M. Steel Tensile strength 26-30 tons Thickness 3/32" 3/4"

Mean pitch of stay tubes in nests 13' 0" x 0' 3/4" Pitch across wide water spaces 14 1/2" Working pressure {front 194 lbs. back

Girders to combustion chamber tops: Material S.M. Steel Tensile strength 20-33 tons Depth and thickness of girder

at centre 2 x 8" x 7/8" Length as per Rule 2' 5" Distance apart 9" - 10" No. and pitch of stays

in each 3 x 7/4" Working pressure by Rules 205 lbs. Combustion chamber plates: Material S.M. Steel

Tensile strength 26-30 tons Thickness: Sides 4 7/64" Back 4 7/64" Top 4 7/64" Bottom 4 7/64"

Pitch of stays to ditto: Sides 7/4" x 0 3/4" Back 7/4" x 0 3/4" Top 7/4" x 9" Are stays fitted with nuts or riveted over welded over

Working pressure by Rules 100 lbs Front plate at bottom: Material S.M. Steel Tensile strength 26-30 tons

Thickness 3/4" Lower back plate: Material S.M. Steel Tensile strength 26-30 tons Thickness 1 3/32"

Pitch of stays at wide water space 13 1/2" Are stays fitted with nuts or riveted over welded over

Working Pressure 190 lbs Main stays: Material S.M. Steel Tensile strength 20-33 tons

Diameter {At body of stay, 2 3/4" No. of threads per inch 6 Area supported by each stay 340 sq in

Over threads 3 1/4" Working pressure by Rules 197 lbs Screw stays: Material S.M. Steel Tensile strength 26-30 tons

Diameter {At turned off part, 1 1/2" No. of threads per inch 9 Area supported by each stay 6344 sq in

W1233-0011

Lloyd's Register
Foundation

Working pressure by Rules 197 lbs Are the stays drilled at the outer ends no ✓ Margin stays: Diameter { At turned off part. 1 3/4" ✓
 No. of threads per inch 9 ✓ Area supported by each stay 00 65 4" Working pressure by Rules 215 lbs
 Tubes: Material iron ✓ External diameter { Plain 3 1/4" ✓ Thickness { 10" 94.8.9 ✓ No. of threads per inch 9 ✓
 Pitch of tubes 4 3/8" ✓ Working pressure by Rules 190 lbs Manhole compensation: Size of opening in
 shell plate 15" x 19" ✓ Section of compensating ring 2' 0 1/2" x 1' 3 1/2" ✓ No. of rivets and diameter of rivet holes 360 1 3/16" ✓
 Outer row rivet pitch at ends 7 7/8" ✓ Depth of flange if manhole flanged unflanged ✓ 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
 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,

WILTON'S ENGINEERING & SLIPWAY CO.

Manufacturer.

Dates of Survey { During progress of work in shops - - - April 3 May 10 July 7 - 8 - 10 - 30 Are the approved plans of boiler and superheater forwarded herewith 13-18-15
 while building { During erection on board vessel - - - Aug 7 - 13 Sept: 25 - 27
Oct 6 - 14 Nov: 12 - 24 - 30 Total No. of visits 14
 (If not state date of approval.)

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

These boilers have been made under Special Survey in accordance with the Society's Rules. Secretary's letter and approved plans material tested as required and workmanship good. Boilers tested as required by the rules and found sound and tight.

Survey Fee ... £ On machinery When applied for, 192
 Travelling Expenses (if any) £ report When received, 192

Engineer Surveyor to Lloyd's Register of Shipping.

Committee's Minute FRI. 17 DEC 1926

Assigned

See S.E. rpt. attached



© 2020

Lloyd's Register Foundation