

REPORT ON BOILERS.

No. 12518
FRI. 22 SEP. 1922

Received at London Office

Date of writing Report 15-9-1922 When handed in at Local Office

Port of Rotterdam

No. in Survey held at Schiedam
Reg. Book.

Date, First Survey 26 Jan 17

Last Survey 5 Aug 1922

(Number of Visits 6) Gross 4441
Tons Net 2702

on the Steel Screw Steamer TENBERGEN

Master Built at Schiedam By whom built New Waterway Ship Co When built 1921-22

Engines made at Rugby By whom made Robert Thomson Houston When made 1922

Boilers made at Schiedam By whom made New Waterway Ship Co When made 1922

Registered Horse Power Owners Tinef Schoep & Agent. May Port belonging to Rotterdam

MULTITUBULAR BOILERS—MAIN, AUXILIARY OR DONKEY.—Manufacturers of Steel William Beardmore

(Letter for record S) Total Heating Surface of Boilers 10164 Is forced draft fitted No No. and Description of

Boilers One 5'E Multitubular Working Pressure 100 lbs Tested by hydraulic pressure to 200 lbs Date of test 5-8-19

No. of Certificate 640 Can each boiler be worked separately Area of fire grate in each boiler 36.74 No. and Description of

safety valves to each boiler 2 Spring loaded Area of each valve 60" Pressure to which they are adjusted 100 lbs

Are they fitted with easing gear Yes In case of donkey boilers, state whether steam from main boilers can enter the donkey boiler No

Smallest distance between boilers or uptakes and bunkers or woodwork On Mandach Mean dia. of boilers 11'-0" Length 10'-0"

Material of shell plates SM Steel Thickness 19/32" Range of tensile strength 20-32 tons are the shell plates welded or flanged No

Descrip. of riveting: cir. seams lap 2x riv long. seams double butt Diameter of rivet holes in long. seams 15/16" Pitch of rivets 5"

Lap of plates or width of butt straps 11 3/4" Per centages of strength of longitudinal joint rivets 100% plate 85.7% Working pressure of shell by

rules 105 Size of manhole in shell 12 x 16" Size of compensating ring 6 x 18" No. and Description of Furnaces in each

boiler 2 Monitors Material SM Steel Outside diameter 3'-7 1/4" Length of plain part top 11 1/2" Thickness of plates crown 1 3/8" bottom 1 1/8"

Description of longitudinal joint Welded No. of strengthening rings Working pressure of furnace by the rules 11 1/2" Combustion chamber

plates: Material SM Steel Thickness: Sides 9/16" Back 9/16" Top 9/16" Bottom 3/4" Pitch of stays to ditto: Sides 8 x 9" Back 8 x 8 1/4"

Top 8 x 9" If stays are fitted with nuts or riveted heads both Working pressure by rules 11 1/2" Material of stays SM Steel Area at

smallest part 0.998 Area supported by each stay 42.0" Working pressure by rules 110 End plates in steam space: Material Steel Thickness 3/4"

Pitch of stays 15 x 16" How are stays secured threaded plates Working pressure by rules 105 Material of stays SM Steel Area at smallest part 2.40"

Area supported by each stay 240 sq. Working pressure by rules 104 Material of Front plates at bottom SM Steel Thickness 3/4" Material of

Lower back plate SM Steel Thickness 3/4" Greatest pitch of stays 12 3/4" Working pressure of plate by rules 120 Diameter of tubes 3 1/4"

Pitch of tubes 4 1/8 x 4 1/2" Material of tube plates Steel Thickness: Front 3/4" Back 7/8" Mean pitch of stays 9" Pitch across wide

water spaces 15 1/4" Working pressures by rules 100 lbs Girders to Chamber tops: Material SM Steel Depth and thickness of

girder at centre 1 x 1/2 x 7" Length as per rule 2-6" Distance apart 9" Number and pitch of Stays in each 1 x 9"

Working pressure by rules 104 lbs Steam dome: description of joint to shell % of strength of joint

Diameter Thickness of shell plates Material Description of longitudinal joint Diam. of rivet holes

Pitch of rivets Working pressure of shell by rules Crown plates Thickness How stayed

SUPERHEATER. Type Date of Approval of Plan Tested by Hydraulic Pressure to

Date of Test Is a Safety Valve fitted to each Section of the Superheater which can be shut off from the Boiler

Diameter of Safety Valve Pressure to which each is adjusted Is Easing Gear fitted

NEW WATERWAY SHIPBUILDING Co.

The foregoing is a correct description,

Signature Manufacturer.

Is the approved plan of boiler forwarded herewith Return

Dates During progress of work in shops 26 Jan 17, 1 May 18, 17 Sept 16-23 1922

Survey while building During erection on board vessel 15 Aug 19. Total No. of visits 6 London Office returned from Rot 30/9/22

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

The boiler has been built in accordance with the approved

Lloyd's Society's Rules and Regulations, material tests

as required and the workmanship is good.

The boiler was originally intended for the Grangerberg Hard 103 and has

now been fitted to the Tenbergen.

Survey Fee ... 200 machines When applied for, 19

Travelling Expenses (if any) £ report. When received, 19

Committee's Minute FRI. 6 OCT. 1922

Assigned See Rot 36 12518

Engineer Surveyor to Lloyd's Register of Shipping.

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Lloyd's Register

W510-0030

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Foundation