

# REPORT ON BOILERS.

No. 10924

THU. JAN. 20 1921

Received at London Office

Date of writing Report 19 When handed in at Local Office 17.1.21 19 Port of Middlesbrough

No. in Survey held at Stockton-on-Tees Date, First Survey 8th Oct. 1920 Last Survey 12th Jan. 1921

Reg. No. 0568 on the S.S. "Rosina" (Number of Visits 11) Gross Tons 2572 Net Tons 1600

Master Built at Hoboken By whom built Chant. Nav. Anversois When built 1904-2

Engines made at Sunderland By whom made N.E. Marine Eng Co When made 1904

Boilers made at Stockton By whom made Messrs. The Hudson & Co. Ltd (No 4388) When made 1921

Registered Horse Power 287 Owners A. Embiricos Port belonging to Andros

## MULTITUBULAR BOILERS—MAIN, AUXILIARY OR DONKEY.—Manufacturers of Steel Thos. J. Spencer & Son Ltd.

Letter for record (5) Total Heating Surface of Boilers 672 sq ft Is forced draft fitted No. and Description of Boilers One single ended Working Pressure 90 Tested by hydraulic pressure to 180 Date of test 12.1.21

No. of Certificate 6196 Can each boiler be worked separately Area of fire grate in each boiler No. and Description of Safety valves to each boiler Area of each valve Pressure to which they are adjusted

Are they fitted with easing gear 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 External Mean dia. of boilers 9'-0" Length 9'-1 1/2"

Material of shell plates steel Thickness 17/32 Range of tensile strength 29-33 Are the shell plates welded or flanged no

Description of riveting: cir. seams Single Lap long. seams 3 Riv. Lap Diameter of rivet holes in long. seams 15/16 Pitch of rivets 3 3/8

Gap of plates or width of butt straps 6 1/2 Per centages of strength of longitudinal joint rivets 93.0 Working pressure of shell by plate 73.59

Size of manhole in shell 16" x 12" Size of compensating ring 5 1/2" x 3/4" No. and Description of Furnaces in each boiler 2 plain Material steel Outside diameter 33" Length of plain part 7 1/2" Thickness of plates 1/2" crown 1/2" bottom 17/32 mean

Description of longitudinal joint Weld No. of strengthening rings none Working pressure of furnace by the rules 98 Combustion chamber plates: Material steel Thickness: Sides 17/32 Back 1/2" Top 17/32 Bottom 5/8" Pitch of stays to ditto: Sides 9 1/2 on Back 8 1/2 x 9 1/2

Top 9 1/2 on If stays are fitted with nuts or riveted heads nuts Working pressure by rules 100 Material of stays steel Area at smallest part 96 Area supported by each stay 84 Working pressure by rules 92 End plates in steam space: Material steel Thickness 3/4"

How are stays secured nuts & washers Working pressure by rules 99 Material of stays steel Area at smallest part 2.66

Area supported by each stay 284 Working pressure by rules 98 Material of Front plates at bottom steel Thickness 3/4" Material of inner back plate steel Thickness 3/4" Greatest pitch of stays 13 1/2 x 9 Working pressure of plate by rules 148 Diameter of tubes 3"

Material of tube plates steel Thickness: Front 3/4" Back 9/16 Mean pitch of stays 10 5/8 Pitch across wide spaces 13 1/2 Working pressures by rules 100 Girders to Chamber tops: Material steel Depth and thickness of at centre 5 3/4 x 1 1/4 Length as per rule 22 7/8 Distance apart 9 1/2 Number and pitch of Stays in each one

Working pressure by rules 106 Steam dome: description of joint to shell none % of strength of joint

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

Working pressure of shell by rules Crown plates Thickness How stayed

Superheater. Type Date of Approval of Plan Tested by Hydraulic Pressure to Is a Safety Valve fitted to each Section of the Superheater which can be shut off from the Boiler

Pressure to which each is adjusted Is Easing Gear fitted

SURVEY REQUEST NO. 1613 ATTACHED

The foregoing is a correct description, THOMAS HUDRON & CO. LIMITED.

R. W. Johnston Manufacturer.

During progress of work in shops - 1920. Oct. 3, 15, 24, Nov. 4, 16, Dec. 6, 10, 17, 30 Jan. 11, 12 Is the approved plan of boiler forwarded herewith yes

During erection on board vessel - - - Total No. of visits 11

GENERAL REMARKS (State quality of workmanship, opinions as to class, &c.) This boiler has been built under special survey: is of good material and workmanship and on completion was tested by hydraulic pressure with satisfactory results. It is stated that the boiler will be fitted on board at Cardiff

Survey Fee ... £ 4-9-6 When applied for, Account Paid a/c.

Travelling Expenses (if any) £ ✓ : 19

Wm Morrison 2019  
Engineer Surveyor to Lloyd's Register of Shipping.

Committee's Minute assigned

TUE FEB 22 1921

TUE NOV. 24 1920

FRI. 2 DEC. 1921

TUE MAR. 14 1922

FRI. 2 JUN. 1922

TUE. DEC. 19 1922

Lloyd's Register Foundation  
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