

REPORT ON BOILERS.

No. 10927

Received at London Office

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

No. in Survey held at Stockton on Tees Date, First Survey 28 Oct. 1920 Last Survey 12th Jan. 1921

Reg. Book. 70588. on the s.s. "Rosina" (Number of Visits 11) Gross 2578 Tons Net 1400

Master Built at Abooken By whom built Chant. & Co. Amersois When built 1904-2

Engines made at Sunderland By whom made M. S. Marine Eng Co. When made 1904

Boilers made at Stockton By whom made Messrs. Thos. Hudon & Co. Ltd. (No. 1388) When made 1921

Registered Horse Power 287 Owners J. Embriacos Port belonging to Andros

MULTITUBULAR BOILERS - MAIN, AUXILIARY OR DONKEY - Manufacturers of Steel Messrs. J. Spencer & Sons Ltd.

(Letter for record (5)) Total Heating Surface of Boilers 672 sq ft Is forced draft fitted No 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 27 sq ft No. and Description of safety valves to each boiler 1 Spring loaded Area of each valve 15.5 sq in Pressure to which they are adjusted 90 lb

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 12 in dia. of boilers 9'-0" Length 9'-1/2"

Material of shell plates steel Thickness 3/32 Range of tensile strength 29-33 Are the shell plates welded or flanged no

Descrip. of riveting: cir. seams Single lap long. seams 3 Riv lap Diameter of rivet holes in long. seams 5/16 Pitch of rivets 3 9/16

Lap 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 rules 95. 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 top 7 1/2" Thickness of plates crown 1/2" bottom 3/4" mean 17/32

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

Top 9 1/2" 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"

Pitch of stays 17 1/4 How are stays secured nuts & washers Working pressure by rules 99 Material of stays steel Area at smallest part 256

Area supported by each stay 284 Working pressure by rules 98 Material of Front plates at bottom steel Thickness 3/4" Material of lower 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"

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

Working pressure by rules 108 Steam dome: description of joint to shell none % of strength of joint

PERHEATER. 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

The foregoing is a correct description,
Thomas Hudon & Co. Ltd.
(Signed) R.W. Johnston Manufacturer.

Dates During progress of work in shops - - - 1920 - Oct. 8, 15, 27, Nov. 4, 16, Dec. 6, 10, 17, 30 Jan. 11, 1921 Is the approved plan of boiler forwarded herewith Yes.

while 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 £ : : When applied for. 19

Travelling Expenses (if any) £ : : When received. 19

Committee's Minute

Assigned

FRI. 26 JUN 1925
FRI. 30 JAN 1925
TUES. 24 JUN 1924
TUE. NOV. 6 1923
FRI. JUL. 8 1921
TUE. MAR. 14 1922
FRI. 2 DEC. 1921
FRI. 10 OCT 1924

(Signed) W. Morrison
Engineer Surveyor to Lloyd's Register of Shipping.

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OF THE SURVEYORS ARE REQUESTED NOT TO WRITE ACROSS THE MARGIN.

W468-0233