

REPORT ON BOILERS.

Received at London Office

Date of writing Report

19

When handed in at Local Office

19

Port of

Malmo

No. in Survey held at
Reg. Book. on the

s/s Erik Boye

Date, First Survey

Last Survey

19

(Number of Visits)

Gross
Tons
Net

Master

Built at

By whom built

When built

Engines made at

By whom made

When made

Boilers made at

Malmo

By whom made

Kockums Mek. Verkedet

When made

1921

Registered Horse Power

Owners

Port belonging to

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

Der Mannesmann-Röhren-Werke AG
Schulz-Knaudt, Hückingen, Germany
bonnarvets Jernverks, Sweden

(Letter for record *S* 2513) Total Heating Surface of Boilers 3910 ^{sq} Is forced draft fitted *yes* No. and Description of Boilers 2 single ended multitubular Working Pressure 185 lbs Tested by hydraulic pressure to 330 lbs Date of test 9/5 + 25/5 1921

No. of Certificate 28 + 29 Can each boiler be worked separately *yes* Area of fire grate in each boiler 51 ^{sq} ft No. and Description of safety valves to each boiler 2 Spring Area of each valve 15 ^{sq} " Pressure to which they are adjusted 185 lbs *See 1st entry. Opn. No. 6979 attached.*

Are they fitted with easing gear *yes* In case of donkey boilers, state whether steam from main boilers can enter the donkey boiler *yes* Smallest distance between boilers or uptakes and bunkers or woodwork Mean dia. of boilers 14" Length 11' 7 ¹³/₁₆"

Material of shell plates Steel Thickness 1.22" Range of tensile strength 28-32 tons Are the shell plates welded or flanged *no* Descrip. of riveting: cir. seams double riv. long. seams as per plan Diameter of rivet holes in long. seams 1 ⁵/₁₆" Pitch of rivets 8 ¹/₄"

Gap of plates or width of butt straps Inner: 20" Outer: 12 ¹/₄" Per centages of strength of longitudinal joint rivets 92% plate 84% Working pressure of shell by rules 186 lbs Size of manhole in shell 15 ³/₄" x 19 ³/₄" Diam. of compensating ring 2' 11 ⁷/₁₆" thickness 1" No. and Description of Furnaces in each boiler 3 Morrison Material Steel Outside diameter 3' 9 ¹/₄" Length of plain part top 1" bottom 1" Thickness of plates crown 5 ¹/₈" 21" bottom 32

Description of longitudinal joint *yes* No. of strengthening rings *yes* Working pressure of furnace by the rules 208.47 Combustion chamber plates: Material Steel Thickness: Sides 2 ¹/₃₂" Back 1 ¹/₁₆" Top 2 ¹/₃₂" Bottom 1 ¹/₁₆" Pitch of stays to ditto: Sides 8 ¹/₄" x 8 ¹/₄" Back 8 ¹/₄" x 8 ⁵/₈" Top 8 ¹/₄" x 8 ¹/₄" If stays are fitted with nuts or riveted heads *both* Working pressure by rules 213 lbs Material of stays Steel Area at smallest part 2" Area supported by each stay 71 ^{sq} " Working pressure by rules 250 End plates in steam space: Material Steel Thickness 1 ¹/₄"

Pitch of stays 23 ⁵/₈" x 19 ¹/₈" How are stays secured *iv. washers* Working pressure by rules 190 Material of stays Steel Area at smallest part 8.99 Area supported by each stay 452 ^{sq} " Working pressure by rules 207.0 Material of Front plates at bottom Steel Thickness 1 ¹/₁₆" Material of Lower back plate Steel Thickness 3 ¹/₃₂" Greatest pitch of stays as per plan Working pressure of plate by rules *yes* Diameter of tubes 3"

Pitch of tubes 4 ¹/₄" x 4" Material of tube plates Steel Thickness: Front 1 ¹/₁₆" Back 7 ⁷/₈" Mean pitch of stays 8.24 Pitch across wide water spaces 15" Working pressures by rules 206.7 Girders to Chamber tops: Material Steel Depth and thickness of girder at centre (8 ¹/₂" x 7 ⁷/₈") 2 Length as per rule 33 ¹/₈" Distance apart 8 ¹/₄" Number and pitch of Stays in each 3-8 ¹/₄"

Working pressure by rules 198.25 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

UPERHEATER. 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, (Sgd) Kockums Mek. Verkedet A.B. Malmo, Manufacturer. By H. Malmquist, Ch. Engineer. Is the approved plan of boiler forwarded herewith Retained in London

Dates of Survey During progress of work in shops - - while building During erection on board vessel - - -

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

Extract — These boilers have been built at the works of Kockums Mek. Verkedet A.B. Malmo, under the usual conditions of Special Survey. The workmanship is good. The boiler shell has partly been tested as per Secretary's letter of the 11th February 1915. Copies of the boiler test certificates issued in this case are attached.

Survey Fee ... £ : : When applied for, 19 Travelling Expenses (if any) £ : : When received, 19

Committee's Minute Assigned

FRI. MAY. 9 1924 TUES. 22 JUL 1924

(Sgd) G. L. Jorgensen Engineer, Surveyor to Lloyd's Register of Shipping.

W397-0090

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