

REPORT ON BOILERS.

No. 3260

6 - JUN 1930

Received at London Office

Date of writing Report *4th June 1930* When handed in at Local Office

193

Port of *Stockholm*No. in
Reg. Book.Survey held at *Stockholm*Date, First Survey *26 April 1930*Last Survey *31 May*19*30*(Number of Visits *4*)Gross *701*Tons } Net *251*Master *✓*Built at *Stockholm*By whom built *Åkkel. Finnboða Varf*Yard No. *312*When built *1930*Engines made at *Elsinore*By whom made *ÅS. Helsingörs Jernskärs og Maskinbyggeri*Engine No. *272*When made *1930-1*Boilers made at *"*By whom made *"*Boiler No. *771*
*772*When made *1930-1*Nominal Horse Power *150*Owners *Stockholms Rederiaktiel. Srea*Port belonging to *Stockholm*

MULTITUBULAR BOILERS—MAIN, AUXILIARY, OR DONKEY.

Manufacturers of Steel ** see foot note*(Letter for Record ***)Total Heating Surface of Boilers ***Is forced draught fitted ***Coal or Oil fired ***No. and Description of Boilers ***Working Pressure ***Tested by hydraulic pressure to ***Date of test ***No. of Certificate ***Can each boiler be worked separately *yes*Area of Firegrate in each Boiler ***No. and Description of safety valves to each boiler ***Area of each set of valves per boiler *{* per Rule ***
as fitted ***Pressure to which they are adjusted *205 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 donkey boiler is fitted.*Smallest distance between boilers *and ship's framing*
or uptakes and bunkers or woodwork *25"*Is oil fuel carried in the double bottom under boilers *✓*Smallest distance between shell of boiler and tank top plating *19"*Is the bottom of the boiler insulated *yes*Largest internal dia. of boilers ***Length ***Shell plates: Material ***Tensile strength ***Thickness ***Are the shell plates welded or flanged ***Description of riveting: circ. seams *{* end ***
inter. ***

long. seams

Diameter of rivet holes in *{* circ. seams ***
long. seams ***Pitch of rivets *{* ***Percentage of strength of circ. end seams *{* plate ***
rivets ***Percentage of strength of circ. intermediate seam *{* plate *✓*
rivets *✓*Percentage of strength of longitudinal joint *{* plate ***
rivets ***
combined ***Working pressure of shell by Rules ***Thickness of butt straps *{* outer ***
inner ***No. and Description of Furnaces in each Boiler ***Material ***Tensile strength ***Smallest outside diameter ***Length of plain part *{* top ***
bottom ***Thickness of plates *{* crown ***
bottom ***Description of longitudinal joint *✓*Dimensions of stiffening rings on furnace or c.c. bottom *✓*Working pressure of furnace by Rules ***End plates in steam space: Material ***Tensile strength ***Thickness ***Pitch of stays ***How are stays secured ***Working pressure by Rules ***Tube plates: Material *{* front ***
back ***Tensile strength *{* ***Thickness *{* ***Mean pitch of stay tubes in nests ***Pitch across wide water spaces ***Working pressure *{* front ***
back ***Girders to combustion chamber tops: Material ***Tensile strength ***

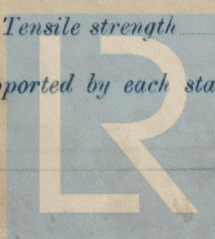
Depth and thickness of girder

at centre ***Length as per Rule ***Distance apart ***

No. and pitch of stays

in each ***Working pressure by Rules ***Combustion chamber plates: Material ***Tensile strength ***Thickness: Sides ***Back ***Top ***Bottom ***Pitch of stays to ditto: Sides ***Back ***Top ***Are stays fitted with nuts or riveted over ***Working pressure by Rules ***Front plate at bottom: Material ***Tensile strength ***Thickness ***Lower back plate: Material ***Tensile strength ***Thickness ***Pitch of stays at wide water space ***Are stays fitted with nuts or riveted over ***Working Pressure ***Main stays: Material ***Tensile strength ***Diameter *{* At body of stay, ***
or *Over threads* ***No. of threads per inch ***Area supported by each stay ***Working pressure by Rules ***Screw stays: Material ***Tensile strength ***Diameter *{* At turned off part, *✓*
or *Over threads* ***No. of threads per inch ***Area supported by each stay ***** see Gen. report no. 8153.*

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Working pressure by Rules *see foot note* Are the stays drilled at the outer ends * Margin stays: Diameter { At turned off part, or Over threads *
No. of threads per inch * Area supported by each stay * Working pressure by Rules *
Tubes: Material * External diameter { Plain * Thickness * No. of threads per inch *
Pitch of tubes * Working pressure by Rules * Manhole compensation: Size of opening in
shell plate * Section of compensating ring * No. of rivets and diameter of rivet holes *
Outer row rivet pitch at ends * Depth of flange if manhole flanged * 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 *yes* Is a safety valve fitted to every part of the superheater which can be shut off from the boiler *yes*
Area of each safety valve *3.14 sq"* Are the safety valves fitted with easing gear *yes* Working pressure as per
Rules *320 lbs.* Pressure to which the safety valves are adjusted *205 lbs.* Hydraulic test pressure
tubes * , castings * and after assembly in place * Are drain cocks or valves fitted
to free the superheater from water where necessary *yes*

Have all the requirements of Sections 14 to 22 inclusive for boilers been complied with *yes*

The foregoing is a correct description,

Manufactured

Dates of Survey { During progress of work in shops - - *
while building { During erection on board vessel - - -
26, 13, 27, 30 & 31, 30
4, 5
Are the approved plans of boiler and superheater forwarded herewith (If not state date of approval.)
Total No. of visits *during erection 5*

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

These boilers and superheaters have been built under the special survey of the Copenhagen Surveyors - see Lpn. Report no. 8153 - and have now been fitted on board under my supervision and to my satisfaction. The boilers and superheaters have been found perfectly tight under full working pressure.

Survey Fee *noted on the machinery Report.*

When applied for,

192

Travelling Expenses (if any) £

When received,

192

Committee's Minute

Assigned

See Report attached

* See Lpn. report no. 8153.

A. Saksen
Engineer Surveyor to Lloyd's Register of Shipping
Assisted by Mr. R. J. Rudenasson



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