

REPORT ON BOILERS.

No. 1510.

Received at London Office 28 NOV 1936

10 mm
 38.7 a
 28 Atm
 7.5 mm
 24.9
 25 Atm
 56 on the *Immi Lemn* /s "JOHANNA THORDEN"
 Gross Tons 3223
 Net Tons 1642
 Number of Visits 3
 Port of *Malmö*
 Survey held at *Landskrona* Date, First Survey *4th September* Last Survey *14th Nov. 1936*
 When handed in at Local Office *26th Nov. 1936*
 Built at *Landskrona* By whom built *Önsnmdsvarvet* /s No. *41* When built *1936*
 Plates made at *Copenhagen* By whom made *Akt. Pommerske & Wain* Engine No. *2556/7* When made *1936*
 Rivets made at *Halifax* By whom made *Messrs. Lunnby & Co.* Boiler No. *5589* When made *1936*
 Indicated Horse Power *675* Owners *Rederiaktiebolaget Sjöströmska Nordamerikanska* Port belonging to *Örnärds*
Limn.

MULTITUBULAR BOILERS—MAIN, AUXILIARY, OR DONKEY.

RETAIN

Manufacturers of Steel _____ (Letter for Record _____)
 Total Heating Surface of Boilers _____ Is forced draught fitted _____ Coal or Oil fired *Oil*
 and Description of Boilers _____ Working Pressure _____
 Tested by hydraulic pressure to _____ Date of test _____ No. of Certificate _____ Can each boiler be worked separately _____
 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 *42 lbs* Are they fitted with easing gear *Yes*
 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 Is oil fuel carried in the double bottom under boilers *Yes*
 Smallest distance between shell of boiler and tank top plating *640 mm* Is the bottom of the boiler insulated *Bricks*
 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. _____
 g. 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 _____ Working pressure of shell by Rules _____ combined _____
 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 _____
Will plates in steam space: Material _____ Tensile strength _____ Thickness _____ Pitch of stays _____
in How are stays secured _____ Working pressure by Rules _____
be plates: Material {front _____ back _____ Tensile strength _____ Thickness { _____
like *the* *pitch* of stay tubes in nests _____ Pitch across wide water spaces _____ Working pressure {front _____ back _____
orders to combustion chamber tops: Material _____ Tensile strength _____ Depth and thickness of girder _____
centre _____ Length as per Rule _____ Distance apart _____ No. and pitch of stays _____
each _____ Working pressure by Rules _____ Combustion chamber plates: Material _____
onsile strength _____ Thickness: Sides _____ Back _____ Top _____ Bottom _____
ch 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 _____
ickness _____ Lower back plate: Material _____ Tensile strength _____ Thickness _____
ch of stays at wide water space _____ Are stays fitted with nuts or riveted over _____
 Working Pressure _____ Main stays: Material _____ Tensile strength _____
f Shipping meter {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 _____
umeter {At turned off part, _____ or _____ Over threads _____ No. of threads per inch _____ Area supported by each stay _____

Working pressure by Rules 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 Stay 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 forgings 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

Area of each safety valve Are the safety valves fitted with casing gear Working pressure as per Rules Pressure to which the safety valves are adjusted Hydraulic test pressure

tubes forgings and castings and after assembly in place Are drain cocks or valves fitted to free the superheater from water where necessary

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

The foregoing is a correct description,

Manufacturer

Dates of Survey During progress of work in shops - - Are the approved plans of boiler and superheater forwarded herewith (If not state date of approval.)

while building During erection on board vessel - - 4/9, 11/11, 14/11. 1936. Total No. of visits 3.

Is this Boiler a duplicate of a previous case If so, state Vessel's name and Report No.

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

This donkey boiler, built under special approval as per Halifax Report No. 8668, has been installed under the inspection of the Surveyors to this Society.

Feed pumps for Donkey Boiler also injector are fitted.

Survey Fee £ : : } When applied for, 19

Travelling Expenses (if any) £ : : } When received, 19

Alexander A. Barring.
Engineer Surveyor to Lloyd's Register of Shipping.

Committee's Minute FRI. 11 DEC 1936

Assigned See Memo Rph 1510