

# REPORT ON BOILERS.

No. 4153

Received at London Office 16 OCT 1933

Date of writing Report 11/10 1933 When handed in at Local Office 10 Port of Oslo

No. in Survey held at Tinsberg Date, First Survey Last Survey 1929

on the 8 pressure boilers for S/S. "Maudie" (Number of Visits) Gross Tons Net

Master Built at By whom built Yard No. When built

Engines made at By whom made Engine No. When made

Boilers made at Tinsberg By whom made Kildnes mill. Norderstedt Boiler No. When made 1929

Nominal Horse Power Owners Port belonging to

## MULTITUBULAR BOILERS MAIN, AUXILIARY, OR DONKEY.

Manufacturers of Steel approved marks (Letter for Record)

Total Heating Surface of Boilers Is forced draught fitted Coal or Oil fired

No. and Description of Boilers 8 pressure boilers as per sketch and page Working Pressure 60 lb.

Tested by hydraulic pressure to 120 lb. Date of test 30.7.29. 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 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 Is oil fuel carried in the double bottom under boilers

Smallest distance between shell of boiler and tank top plating Is the bottom of the boiler insulated

Largest internal dia. of boilers 7'-4 5/8" Length 9'-7" Shell plates: Material S.M. steel Tensile strength 28-35

Thickness 7/16 Are the shell plates welded or flanged end flanged Description of riveting: circ. seams end single riv. inter.

Long. seams double riveted Diameter of rivet holes in circ. seams 1 3/16 long. seams 1 3/16 Pitch of rivets 2 1/2

Percentage of strength of circ. end seams plate 62.5 rivets 47 Percentage of strength of circ. intermediate seam plate rivets

Percentage of strength of longitudinal joint plate 71 rivets 58 combined Working pressure of shell by Rules 61

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 S.M. steel Tensile strength 26-30 Thickness top 20 mm bottom 17 mm 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



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 \_\_\_\_\_ Thickness { \_\_\_\_\_ No. of threads per inch \_\_\_\_\_  
 Stay \_\_\_\_\_  
 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

Number of elements \_\_\_\_\_ Material of tubes \_\_\_\_\_ Manufacturers of { Tubes \_\_\_\_\_  
 Steel castings \_\_\_\_\_  
 Internal diameter and thickness of tubes \_\_\_\_\_  
 Material of headers \_\_\_\_\_ Tensile strength \_\_\_\_\_ Thickness \_\_\_\_\_ Can the superheater be shut off and  
 the boiler be worked separately \_\_\_\_\_ Is a safety valve fitted to every part of the superheater which can be shut off from the boiler  
 Area of each safety valve \_\_\_\_\_ Are the safety valves fitted with easing gear \_\_\_\_\_ Working pressure as per  
 Rules \_\_\_\_\_ Pressure to which the safety valves are adjusted \_\_\_\_\_ Hydraulic test pressure: \_\_\_\_\_  
 tubes \_\_\_\_\_, 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,

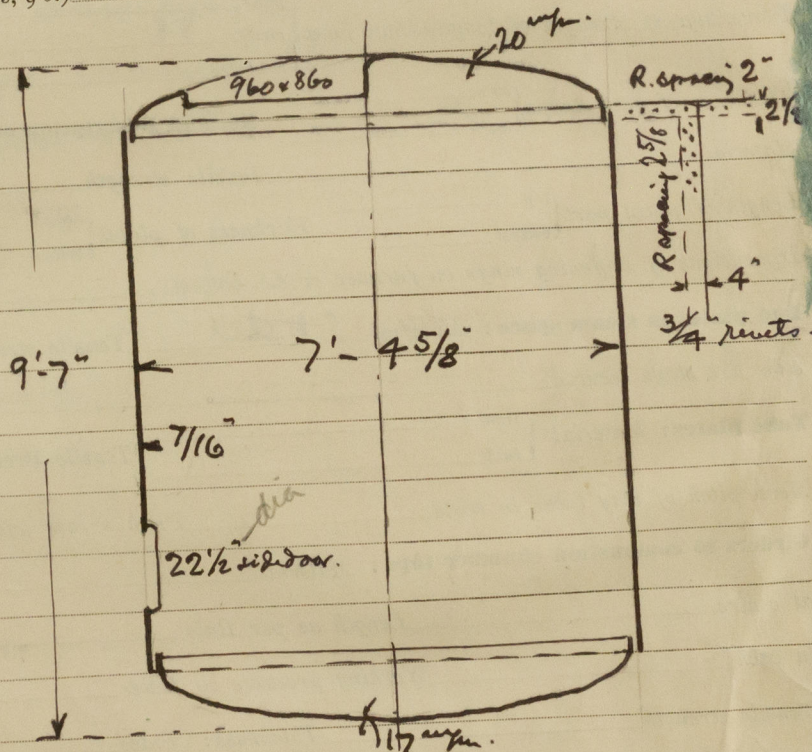
Manufacturer.

Dates of Survey { During progress of work in shops - - }  
 while building { During erection on board vessel - - }  
 Are the approved plans of boiler and superheater forwarded herewith (If not state date of approval.)  
 Total No. of visits \_\_\_\_\_

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.)

These boilers examined during construction and tested by hydraulic pressure to 140 lbs. The working pressure is only 60 lbs as for the other pressure boilers on board. The workmanship is good.



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

Pergois-Rohr

Engineer Surveyor to Lloyd's Register of Shipping.

Committee's Minute

Assigned



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