

## REPORT ON BOILERS.

No. 2 3 6 8.

Received at London Office

23 JUN 1953

Writing Report 12/6 1953 When handed in at Local Office 17/6 1953 Port of HELSINGBORG.

Survey held at Landskrona Date, First Survey 1st Nov., 1952 Last Survey 9th June, 1953.

(Number of Visits 18) Gross 10729 Tons Net 6257

on the Motortanker "MADELEINE".

Built at Landskrona By whom built Öresundsvärvet A/B Yard No. 126 When built 1953

es made at Gothenburg By whom made A/B Götaverken Engine No. 2503 When made 1953

s made at Stockton-on-Tees By whom made Stockton Chemical Engineers & Riley Boilers, Ltd. Boiler No. 7289/90 When made 1953

al Horse Power - Owners A/B Verna Port belonging to Helsingborg

TITUBULAR BOILERS ~~MAIN~~ ~~AUXILIARY~~ OR DONKEY.

facturers of Steel - (Letter for Record -)

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

nd Description of Boilers Two - S.E. Multitubular Working Pressure 150 lbs/sq. in

l by hydraulic pressure to - Date of test - No. of Certificate - Can each boiler be worked separately Yes

of Firegrate in each Boiler - No. and Description of safety valves to each boiler One double spring loaded

of each set of valves per boiler { per Rule 16.6 sq. in. as fitted 17.6 sq. in. Pressure to which they are adjusted 150 lbs./sq. in. Are they fitted with easing gear Yes

se of donkey boilers, state whether steam from main boilers can enter the donkey boiler No main boilers

est distance between boilers or uptakes and bunkers or woodwork - Is oil fuel carried in the double bottom under boilers No

est distance between shell of boiler and tank top plating Boilers on a platform in Engine Room Is the bottom of the boiler insulated Yes

st internal dia. of boilers Length Shell plates: Material Tensile strength

25. Are the shell plates welded or flanged Description of riveting: circ. seams { end inter. Pitch of rivets {

seams Diameter of rivet holes in { circ. seams long. seams

ntage of strength of circ. end seams { plate rivets Percentage of strength of circ. intermediate seam { plate rivets

ntage of strength of longitudinal joint { plate rivets Working pressure of shell by Rules combined

ness of butt straps { outer inner No. and Description of Furnaces in each Boiler

ial Tensile strength Smallest outside diameter

h of plain part { top bottom Thickness of plates { crown bottom Description of longitudinal joint

sions of stiffening rings on furnace or c.c. bottom Working pressure of furnace by Rules

lates in steam space: Material Tensile strength Thickness Pitch of stays

re stays secured Working pressure by Rules

o. 18 plates: Material { front back Tensile strength Thickness

acco pitch of stay tubes in nests Pitch across wide water spaces Working pressure { front back

ne me s to combustion chamber tops: Material Tensile strength Depth and thickness of girder

the e Length as per Rule Distance apart No. and pitch of stays

ect c Working pressure by Rules Combustion chamber plates: Material

strength Thickness: Sides Back Top Bottom

is el of stays to ditto: Sides Back Top Are stays fitted with nuts or riveted over

g pressure by Rules Front plate at bottom: Material Tensile strength

ess Lower back plate: Material Tensile strength Thickness

of stays at wide water space Are stays fitted with nuts or riveted over

g pressure Main stays: Material Tensile strength

er { At body of stay No. of threads per inch Area supported by each stay or Over threads

Shipping pressure by Rules Screw stays: Material Tensile strength

er { At turned off part No. of threads per inch Area supported by each stay or Over threads

g.s.  
13/7/53

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 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 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 from the boiler. 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. forgings and castings. and after assembly in place. Are drain cocks 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. Yes.

The foregoing is a correct description,

Dates of Survey while building { During progress of work in shops - 1952 Nov. 1, 11, 13, 18. 1953 Jan. 2, 30. Mar. 28, 31. Apr. 8, 16. During erection on board vessel - 1953 Apr. 8. May. 29. June 1, 2, 4, 7, 8, 9. Are the approved plans of boiler and superheater forwarded herewith. (If not state date of approval.) Total No. of visits. 18

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 donkey boilers, built under Special Survey as per the Middlesbrough report No. 19821 (photostate copy enclosed), have been installed on board under my supervision and to my satisfaction. The safety valves have been adjusted under steam to 150 lbs. per sq. inch.

One combined exhaust gas economiser and silencer of Messrs. A/B Götaverken's type as per the Gothenburg Surveyors' Certificate No. 15783 enclosed herewith, has also been installed on board to my satisfaction.

The economiser found marked: No. 114

LLOYD'S TEST 19,25 kgs.  
W.P. 10,5 kgs.  
O.S. 30.1.53

The safety valves of the economiser have been adjusted under steam to 150 lbs. per sq. in.

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

Engineer Surveyor to Lloyd's Register of Shipping.

Committee's Minute

TUESDAY 21 JUL 1953

Assigned

See F.E. Mclay, rpt.



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