

REPORT ON BOILERS.

No. 13198

Received at London Office

NOV 1948

Date of writing Report 20.10.48 When handed in at Local Office 25.10.48 Port of TRIESTE

No. in Reg. Book 7723 on the Survey held at TRIESTE Date, First Survey 4.12.1947 Last Survey 11.10.1948

(Number of Visits 11) Tons {Gross 6410 Net 3869}

Built at Monfalcone By whom built Cant. Rivu. dell' Adriatico Yard No. 1737 When built 1948

Engines made at Trieste By whom made Cant. Rivu. dell' Adriatico Engine No. 5467 When made 1948

Boilers made at Trieste By whom made Cant. Rivu. dell' Adriatico Boiler No. 1912 When made 1948

Owners Wilh. Wilhelmsen Port belonging to Tönsberg

VERTICAL DONKEY BOILER.

Made at Trieste By whom made Cant. Rivu. dell' Adriatico Boiler No. 1912 When made 1948 Where fixed funnel

Manufacturers of Steel Osterr. Alpine Montangesellschaft of Donawitz-Vitkovice Steel Works Nat. Corp. - Acciaie Terni

Total Heating Surface of Boiler 968 Sq. Ft. (Exh. gas & Oil) Is forced draught fitted NO Oil fired & Exh. gas

No. and Description of Boilers One - Clarkson Type Thimble Tube Working pressure 100 lbs/sq"

Tested by hydraulic pressure to 200 lbs/sq" Date of test 26. June 48 No. of Certificate 339

Area of Firegrate in each Boiler — No. and Description of safety valves to each boiler Two - spring loaded

Area of each set of valves per boiler {per rule 5540 mm² as fitted 8831 Pressure to which they are adjusted 100 lb/sq" Are they fitted with easing gear yes

State whether steam from main boilers can enter the donkey boiler — Smallest distance between boiler or uptake and bunkers

or woodwork ample Is oil fuel carried in the double bottom under boiler — Smallest distance between base of boiler and tank top plating

Is the base of the boiler insulated yes Largest internal dia. of boiler 2200 mm Height 5200 mm.

Shell plates: Material S. M. S. Tensile strength 44 Kgmm² Thickness 22 mm.

Are the shell plates welded or flanged no Description of riveting: circ. seams D.R. Lap. long. seams D.R. D.B.S.

Dia. of rivet holes in {circ. seams 29 mm. Pitch of rivets {115.51 mm. Percentage of strength of circ. seams {plate 74.9 rivets 43 of Longitudinal joint {plate 74.4 rivets 82 combined —

Working pressure of shell by rules 15.8 Kgmm² at joints - 7.18 at tubes Thickness of butt straps {outer 18 mm. inner 18 mm.

Shell Crown: Whether complete hemisphere, dished partial spherical, or flat dished Material S. M. S.

Tensile strength 41 Kgmm² Thickness 21 mm. Radius 1900 mm. Working pressure by rules —

Description of Furnace: Plain, spherical, or dished crown dished Material S. M. S. Tensile strength 41 Kgmm²

Thickness crown 24 mm External diameter {top 1170 mm Length as per rule — Working pressure by rules —

Pitch of support stays circumferentially — and vertically — Are stays fitted with nuts or riveted over —

Diameter of stays over thread — Radius of dished furnace crown 1900 mm Working pressure by rule —

Thickness of Ogee Ring furnace crown Diameter as per rule {D — Working pressure by rule —

Combustion Chamber: Material S. M. S. Tensile strength 41 Kgmm² Thickness of top plate 16 mm.

Radius if dished 900 mm Working pressure by rule — Thickness of back plate — Diameter if circular 1112 mm

Length as per rule — Pitch of stays — Are stays fitted with nuts or riveted over —

Diameter of stays over thread — Working pressure of back plate by rules —

Tube Plates: Material inner S outer S Tensile strength 41 Kgmm² Thickness 26 mm. pitch of tubes {154.54 x 92 mm. 140 x 106.96 mm.

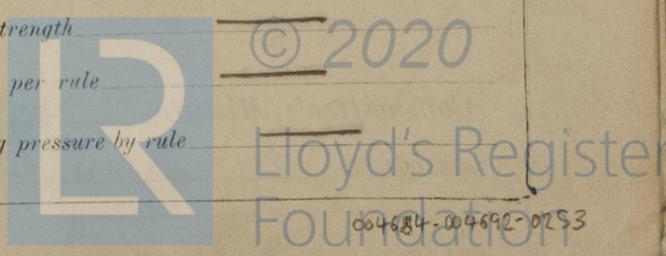
If comprising shell, Dia. as per rule {front — Pitch in outer vertical rows { — Dia. of tube holes {inner stay — outer stay — plain 90 mm plain 64 mm

Is each alternate tube in outer vertical rows a stay tube — Working pressure by rules {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 rule —



Handwritten note: 15/14/48

Crown 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 _____

Tubes: Material steel External diameter { outer 63.5 mm. Thickness { 3.75 mm. inner 89 mm. 3.75 mm.

No. of threads per inch _____ Pitch of tubes { outer 106.96 mm. Working pressure by rules _____ inner 92 mm.

Manhole Compensation: Size of opening in top end 400x300 mm. Section of compensating ring _____ No. of rivets and diameter _____

of rivet holes _____ Outer row rivet pitch at ends _____ Depth of flange if manhole flanged 82 mm.

Uptake: External diameter 602 mm. Thickness of uptake plate 16 mm.

Cross Tubes: No. _____ External diameters { _____ Thickness of plates _____

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

The foregoing is a correct description,

Cantieri Riunione Adriatica
CANTIERE MONFALCONE Manufacturer.

Dates of Survey { During progress of work in shops - - } 4.12.47, 13.12.47 - 1948 June 8, 24. Is the approved plan of boiler forwarded herewith yes
(If not state date of approval.)
{ while building } Sept 8.
{ During erection on board vessel - - } 1948 Sept. 9, 13, 16. Oct 2, 4, 11. Total No. of visits 11

GENERAL REMARKS (State quality of workmanship, opinions as to class, &c.) This boiler has been constructed under special survey from tested material and in accordance with the Society's Rules and approved plans. -
The material and the workmanship are good. -
The boiler was efficiently installed on board the vessel, found tight under steam, the safety valves adjusted for a working pressure of 100 lb/sq in and a satisfactory accumulation test made under exhaust gas and oil fuel firing. -
The boiler in my opinion, is eligible to be classed with record of: 1 D.B. - 100 lb. ✓

Survey Fee £ 10 : - :) When applied for, 19
Travelling Expenses (if any) £ : :) When received, 19

John W. Lee
Engineer Surveyor to Lloyd's Register of Shipping.

Committee's Minute FRI, 20 MAY 1948
Assigned For minute recd. S. R. W.

