

REPORT ON BOILERS.

No. 21

Received at London Office. 21 MAY 1948

Report 17th May 1948 When handed in at Local Office. 19..... Port of Nantes
 Survey held at Saint Nazaire Date, First Survey 15th July 1947 Last Survey 19.....
 the steel single screw steamer "Saint Bertrand" ex Channing (Number of Visits.....) Tons Gross 5522 Net 3310
 Built at Vegesack By whom built Bremer Vulkan Yard No..... When built 1929
 Vegesack By whom made Bremer Vulkan Engine No..... When made 1929
 Vegesack By whom made Bremer Vulkan Boiler No..... When made 1929
 Power 646 M.H.P. Owners French Government Port belonging to Le Havre

BULAR BOILERS—MAIN, AUXILIARY, OR DONKEY.

of Steel (Letter for Record.....)
 Surface of Boilers 9074.052 sq. ft. Is forced draught fitted. Yes Coal or Oil fired Oil
 Description of Boilers 3 cylindrical return flange boilers Working Pressure 14.5/206 lb./sq. in.
 Hydraulic pressure to..... Date of test..... No. of Certificate..... Can each boiler be worked separately. Yes
 Rate in each Boiler 65 sq. ft. No. and Description of safety valves to each boiler 2 safety valves per boiler
 Set of valves per boiler per Rule..... Pressure to which they are adjusted..... Are they fitted with easing gear. Yes
 Key boilers, state whether steam from main boilers can enter the donkey boiler No donkey boiler
 Distance between boilers or uptakes and bunnings or woodwork 3.25 feet Is oil fuel carried in the double bottom under boilers No
 Distance between shell of boiler and tank top plating 16" Is the bottom of the boiler insulated Yes
 External dia. of boilers 15.91 feet Length 12.1 feet Shell plates: Material steel Tensile strength 7
 0.45" Are the shell plates welded or flanged flanged Description of riveting: circ. seams { end 9.69" inter 4.84" }
 Diameter of rivet holes in { circ. seams 1.42" } Pitch of rivets { 3.78" }
 { long. seams 1.5" } { 4.84" }
 strength of circ. end seams { plate 0.845 } Percentage of strength of circ. intermediate seam { plate 0.845 }
 { rivets 0.920 } { rivets 0.920 }
 strength of longitudinal joint { plate 0.845 } Working pressure of shell by Rules.....
 { rivets 0.920 }
 { combined..... }
 No. and Description of Furnaces in each Boiler 3 Fox furnaces
 mild steel Tensile strength 500/600 lb. p. sq. inch A 25/20% Smallest outside diameter 3.96 feet
 Thickness of plates { crown 0.64" } Description of longitudinal joint.....
 { bottom 0.64" }
 stiffening rings on furnace or c.c. bottom Working pressure of furnace by Rules.....
 steam space: Material mild steel Tensile strength 590/660 lb. p. sq. inch A 25/20% Thickness 0.98" Pitch of stays 15.5"
 secured screwed with nuts, check nuts and washers Working pressure by Rules.....
 Material { front mild steel } Tensile strength 590/660 lb. p. sq. inch A 25/20% Thickness { 0.98" }
 { back do } { 0.98" }
 stay tubes in nests 8.66" Pitch across wide water spaces 8.66" Working pressure { front..... }
 { back..... }
 combustion chamber tops: Material mild steel Tensile strength 590/660 lb. p. sq. inch A 25/20% Depth and thickness of girder
 0.5" - 0.64" Length as fitted 36.22" Distance apart 7.68" No. and pitch of stays
 Working pressure by Rules..... Combustion chamber plates: Material mild steel
 500/600 lb. A 25/20% Thickness: Sides 0.64" Back 0.64" Top 0.64" Bottom 0.91"
 to ditto: Sides 7.68" Back 7.20" Top..... Are stays fitted with nuts or riveted over with nuts and washers
 sure by Rules Front plate at bottom: Material mild steel Tensile strength 500/600 lb. p. sq. inch A 25/20%
 1.08" Lower back plate: Material mild steel Tensile strength 500/600 lb. p. sq. inch A 25/20% Thickness 0.98"
 at wide water space 25.02" to 17.7" Are stays fitted with nuts or riveted over with nuts and washers
 Main stays: Material mild steel Tensile strength 500/600 lb. p. sq. inch A 25/20%
 of ship { 2.5" } No. of threads per inch 6 Area supported by each stay.....
 { 3.2" and 2.8" }
 sure by Rules Screw stays: Material mild steel Tensile strength 500/600 lb. p. sq. inch A 25/20%
 turned off part 2.5" No. of threads per inch 5 Area supported by each stay.....
 { 3.2" and 2.8" }

Working pressure by Rules _____ Are the stays drilled at the outer ends Yes Margin stays: Diameter { At turned off part, 2.5"
or Over threads, 3.2" ~~2.8"~~

No. of threads per inch 6 Area supported by each stay _____ Working pressure by Rules _____

Tubes: Material mild steel External diameter { Plain 3"
Stay 3.26" Thickness { 0.16"
0.32" No. of threads per inch 6

Pitch of tubes 8.66" Working pressure by Rules _____ Manhole compensation: Size of opening in
shell plate 18.12" x 22" Section of compensating ring _____ No. of rivets and diameter of rivet holes 42 rivets & 1.5"

Outer row rivet pitch at ends 2.4" Depth of flange if manhole flanged _____ Steam Dome: Material No dome

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 p
of rivets in outer row in dome connection to shell _____

Type of Superheater Wilhelm Schmidt Manufacturers of { Tubes _____
Steel forgings _____
Steel castings _____

Number of elements 258 Material of tubes mild steel Internal diameter and thickness of tubes 0.75" - 0.12"

Material of headers mild steel Tensile strength _____ Thickness 0.79" 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 _____ Are the safety valves fitted with easing gear Yes 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 _____

The foregoing is a correct description.

Manufacturer

Dates { During progress of 23/1/48 - 12/3/48 - 4/5/48 Are the approved plans of boiler and superheater forwarded herewith
work in shops - - - (If not state date of approval.)
During erection on okay board vessel - - - 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.)

The boilers of this vessel were examined and all characteristics noted in order to make up this 1st entry report. They were also thoroughly repaired as necessary. They are eligible, in my opinion to be classed LMC 7.48 - BS 7.48. Fitted for oil fuel burning 7.48.

Note. The main funnel, shortened off about 5 feet during the war has been relengthened to its original dimension.
(To be confirmed by Rpt 9 to be issued when the repairs are finished)

Survey Fee ... £ : : } When applied for,19.....
Travelling Expenses (if any) £ : : } When received19.....

Committee's Minute

Assigned

Assig

FRI 11 JUN 1948

See minute on
fe. 7.48



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Engineer Surveyor to Lloyd's Register of Shipping