

## REPORT ON BOILERS.

No. 34

Received at London Office

Date of writing Report May 8 1941 When handed in at Local Office

Port of New York

No. in Survey held at Schenectady, N.Y.

Date, First Survey March 24th

Last Survey May 6th 1941

Reg. Book.

on the British Government Freighters S/S "Ocean Stranger"

(Number of Visits 40)

Gross  
Tons  
Net

Master Built at S. Portland, Me. By whom built Todd, Bath Iron Ship Building Co. When built

Engines made at Hamilton, Ohio By whom made General Machinery Corp. When made 1941

Boilers made at Schenectady, N.Y. By whom made American Locomotive Co. When made 1941

Nominal Horse Power 503 505 Owners British Government

Port belonging to -

MULTITUBULAR BOILERS—MAIN, AUXILIARY OR DONKEY—Manufacturers of Steel Worth Steel Co.

(Letter for record (S)) Total Heating Surface of Boilers 7140 sq. ft. Is forced draft fitted Yes No. and Description of

Boilers One (1) Scotch Type Working Pressure 220 lbs. Tested by hydraulic pressure to 380 lbs. Date of test 26-5-41

No. of Certificate S-4 Can each boiler be worked separately yes Area of fire grate in each boiler 43 sq. ft. No. and Description of

safety valves to each boiler 2 spring loaded high lift Area of each valve 5.52 sq. in. Pressure to which they are adjusted 225 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 See installation report Mean dia. of boilers 14' 6 3/16" Length 11' 8 1/32"

Material of shell plates Steel Thickness 1 13/32 Range of tensile strength 65,000 to 75,000 lbs. Are the shell plates welded or flanged No

Descrip. of riveting: cir. seams Double lap long. seams T.R.D.B.S. Diameter of rivet holes in long. seams 1 1/2 Pitch of rivets 10"

width of butt straps 22 1/8" Per centages of strength of longitudinal joint rivets 93.5 Working pressure of shell by

rules 222 lbs. Size of manhole in shell None Size of compensating ring - No. and Description of Furnaces in each

boiler 3 Morison Material Steel Outside diameter 44 1/2 Length of plain part top 9 3/16 Thickness of plates crown 21/32

Description of longitudinal joint Welded No. of strengthening rings None Working pressure of furnace by the rules 231 lbs. Combustion chamber

plates: Material Steel Thickness: Sides 25/32" Back 23/32" Top 25/32" Bottom 25/32" Pitch of stays to ditto: Sides 9 x 10 3/16 Back 9 x 9

Top 11 x 7 5/8 If stays are fitted with nuts or riveted heads Nuts Working pressure by rules 225 lbs. Material of stays Steel Area at

smallest part 2.02 sq. in. supported by each stay 100 sq. in. Working pressure by rules 224 End plates in steam space: Material Steel Thickness 1 7/16

Pitch of stays 21 1/4" Double How are stays secured Nuts Working pressure by rules 242 Material of stays Steel Area at smallest part 9.62 sq. in.

Area supported by each stay 446 sq. in. Working pressure by rules 242 Material of Front plates at bottom Steel Thickness 31/32 Material of

Lower back plate Steel Thickness 29/32 Greatest pitch of stays 14 1/2" x 9" Working pressure of plate by rule 232 lbs. Diameter of tubes 3"

Pitch of tubes 4 1/4 x 1/8 Material of tube plates Steel Thickness: Front 31/32 Back 13/16 Mean pitch of stays 9.45" Pitch across wide

water spaces 14 1/2 x 8 1/4 Working pressures by rules 233 lbs Girders to Chamber tops: Material Steel Depth and thickness of

girder at centre 10 1/4" x 1 3/4" Length as per rule 2' 10" Distance apart 11" Number and pitch of Stays in each 3 - 7 5/8"

Working pressure by rules 229 lbs Steam dome: description of joint to shell No Dome % of strength of joint -

Diameter - Thickness of shell plates - Material - Description of longitudinal joint - Diam. of rivet holes -

Pitch of rivets - Working pressure of shell by rules - Crown plates - Thickness - How stayed -

N.E. Marine

SUPERHEATER. Type Engine Co. Date of Approval of Plan See Installation Report Tested by Hydraulic Pressure to -

Date of Test - Is a Safety Valve fitted to each Section of the Superheater which can be shut off from the Boiler -

Diameter of Safety Valve - Pressure to which each is adjusted - Is Easing Gear fitted -

The foregoing is a correct description,

R. J. Smith, M. Eng., L. Eng., L. S. S. Manufacturer.

Dates of Survey During progress of 24th March 1941 to 26th May, 1941 Is the approved plan of boiler forwarded herewith 90th Boiler

while (During erection on) board vessel - - -

(Continuous attendance)

Total No. of visits Forty days

GENERAL REMARKS (State quality of workmanship, opinions as to class, etc.) This Boiler has been built under Special Survey in accordance with the Rules &amp; approved plans, and the workmanship and material are

good. It has been satisfactorily tested to 380 lbs. by hydraulic pressure in presence of the undersigned. It has been forwarded to S. Portland, Maine to be fitted on board, &amp; when this has been done in accordance with the Rules, the vessel will be eligible in my opinion to receive the notations L M C with date, and 220 lbs. and FD in the Register Book.

Survey Fee ... £ See Machinery When applied for, 191

Travelling Expenses (if any) £ Report When received, 191

Committee's Minute

Assigned See First Entry Report.

NEW

NOV 10 1941

Thomas Clark 2020  
Engineer Surveyor to Lloyd's Register of Shipping.Lloyd's Register  
Foundation

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