

REPORT ON BOILERS.

Received at London Office 24 AUG 1942

Date of writing Report July 26th 1941 When handed in at London Office 19... Port of New York

No. in Reg. Book Survey held at Schenectady, N. Y. Date, First Survey June 20th Last Survey July 25th 1941

on the British Government Freighters *SS Ocean Pride* (Number of Visits 29) Tons {Gross 7173 Net 4278}

Built at S. Portland, Maine By whom built Todd-Bath Iron Shipbuilding Corporation Yard No. 8 - When built 1941

Engines made at Hamilton, Ohio By whom made General Machinery Corporation Engine No. 6556 - When made 1941

Boilers made at Schenectady, N. Y. By whom made American Locomotive Co. Boiler No. S-65 When made 1941

Nominal Horse Power 505 Owners British Government Port belonging to London

MULTITUBULAR BOILERS—MAIN, AUXILIARY OR DONKEY.

Manufacturers of Steel Worth Steel Co. (Letter for Record S...)

Total Heating Surface of Boilers 7140 sq. ft. *in 3 bbls.* Is forced draught fitted Yes Coal or Oil fired Coal

No. and Description of Boilers One (1) Scotch type Working Pressure 220 lbs.

Tested by hydraulic pressure to 380 lbs. Date of test July 25th, 1941 No. of Certificate S-65 Can each boiler be worked separately Yes

Area of Firegrate in each boiler 43 sq. ft. No. and Description of Safety valves to each boiler 2 spring loaded high lift

Area of each set of valves per boiler {per Rule 5.52 sq. in as fitted approved} 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 Is oil fuel carried in the double bottom under boilers -

Smallest distance between shell of boiler and tank top plating See Installation Report Is the bottom of the boiler insulated -

Approved of March Largest internal diameter of boilers 14 ft. 6-3/16" Length 11' 8-1/32" Shell plates: Material Steel Tensile strength 65000 to 75000 lbs.

Thickness 1-13/32" Are the shell plates welded or flanged No Description of riveting: circ. seams {end Double lap inter.} Pitch of rivets {10" 4.25}

Long. seams T.R.D.B.S. Diameter of rivet holes in {circ. seams 1 1/2" long. seams 1 1/2"}

Percentage of strength of circ. end seams {plate 64.6 rivets 47.0} Percentage of strength of circ. intermediate seam {plate 85.0 rivets 93.5}

Percentage of strength of longitudinal joint {plate 93.5 rivets 88.7 combined}

Thickness of butt straps {outer 1-3/32 inner 1-7/32} No. and Description of Furnaces in each Boiler 3 Morrison

Material Steel Tensile strength 58200 to 68200 lbs. Smallest outside diameter 41 1/2"

Length of plain part {top 9-3/16" bottom 9-3/16"} Thickness of plates {crown 21/32 bottom 21/32} Description of longitudinal joint Welded

Dimensions of stiffening rings on furnace or c.c. bottom None

End plates in steam space: Material Steel Tensile strength 58240 to 68240 Thickness 1-7/16" Pitch of stays 21 1/4" x 21"

How are stays secured Double Nuts

Tube plates: Material {front back} Steel Tensile strength {58240 to 68240 lbs. Thickness {31/32 13/16}

Mean pitch of stay tubes in nests 9.45" 9.7 Pitch across wide water spaces 14 1/2" x 8 1/2"

Girders to combustion chamber tops: Material Steel Tensile strength 64960 to 74960 lbs. Depth and Thickness of girder at centre 10 1/4" 1-3/4" Length as per Rule 2' 10" Distance apart 11" No. and pitch of stays in each 3 - 7-5/8" Combustion chamber plates: Material Steel Tensile strength 58240 to 68240 lbs. 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" Are stays fitted with nuts or riveted over Nuts

Front plate at bottom: Material Steel Tensile strength 58240 to 68240 lbs.

Thickness 31/32 Lower back plate: Material Steel Tensile strength 58240 to 68240 lbs. Thickness 29/32

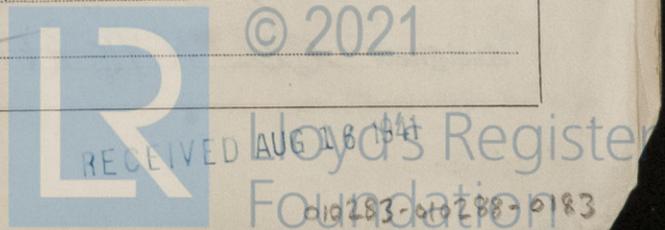
Pitch of stays at wide water space 14 1/2" x 9" Are stays fitted with nuts or riveted over Nuts

Main stays: Material Steel Tensile strength 62720 to 71680 lbs.

Diameter {At body of stay 3 1/2" or Over threads 3-3/4"} No. of threads per inch Six (6)

Screw stays: Material Steel Tensile strength 58240 to 67200 lbs.

Diameter {At turned off part 1-3/4" or Over threads 1-3/4", 1-7/8", 2" 2-1/8"} No. of threads per inch Nine (9)



Are the stays drilled at the outer ends No. Margin stays: Diameter ~~XXXXXX~~ or 2" x 2-1/8" Over threads

No. of threads per inch Nine (9)

Tubes: Material Seamless Steel External diameter 3" Thickness .165" No. of threads per inch Nine (9)

Pitch of tubes 4-1/4" x 4-1/8" Manhole compensation: Size of opening in shell plate None 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 None

Tensile strength - Thickness of shell - Description of longitudinal joint -

Diameter of rivet holes - Pitch of rivets - Percentage of strength of joint -

Internal diameter - Thickness of crown - No. and diameter of stays - Inner radius of crown -

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 N.E. Marine Engine Co. Manufacturers of Tubes Combustion Engineering Co.

Number of elements 58 Material of tubes Seamless Carbon Steel Tubing Stay 2-5/8" I.D. 3/8" wall, 2-11/16" I.D. 5/16" wall

A.S.T.M-A-100-40 Class B. Material of headers 25-30 Carbon for Welding Plain 2.68 ID-#8-L.S.G. Internal diameter and thickness of tubes 1-1/8"

Material of headers 25-30 Carbon for Tensile strength 62000 lbs. Thickness 1-1/8" 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 -

Area of each safety valve - Are the safety valves fitted with easing gear -

Pressure to which the safety valves are adjusted - Hydraulic test pressure: tubes - forgings and castings - and after assembly in place - Are drain cocks or valves fitted to free the superheater from water where necessary Yes

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

R.F. Smith The foregoing is a correct description, Mechanical Engineer for American Locomotive Co. Manufacturer

Dates of Survey June 20th to July 25th 1941 Are the approved plans of boiler and superheater forwarded herewith Approved (If not state date of approval.) 24th of March

while building During erection on board vessel - - - Total No. of visits Twenty-nine days

Is this Boiler a duplicate of a previous case Yes If so, state Vessel's name and Report No. Vessel not named. N.Y.Rpt. S-1

GENERAL REMARKS (State quality of workmanship, opinions as to class, &c.) This boiler has been built under Special Survey in accordance with the Rules and approved plans and the workmanship and material is 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 and when this has been done in accordance with the rules, the vessel will be eligible in my opinion to receive the notation \dagger L.M.C. with date and 220 lbs. and F.D. in the Register Book.

Survey Fee ... £ see: Mch report When applied for, 19

Travelling Expenses (if any) £ report When received, 19

Shunias Clark
Engineer Surveyor to Lloyd's Register of Shipping.

Committee's Minute NEW YORK AUG 5 1942

Assigned See N.Y.R. RPT. NO. 42656



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