

REPORT ON BOILERS.

No. 43131

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Date of writing Report 18 November 1942 When handed in at Local Office 19 Port of Portland, Maine (New York) U.S.A.

No. in Survey held at South Portland, Maine Date, First Survey 27 August Last Survey 23rd October 1942
Reg. Book.

on the s.s. "OCEAN ANGEL"

(Number of Visits. Continuous Tons Gross 7178 Net 4280

Built at So. Portland, Maine By whom built Todd-Bath Iron Shipbuilding Corporation Yard No. 26 When built 1942

Engines made at Lachine, P.Q. By whom made Dominion Eng. Works Ltd. Engine No. 48 When made 1942

Boilers made at Schenectady, New York By whom made American Locomotive Co. Boiler No. S73,74,76 When made 1941

Nominal Horse Power. 505 Owners British Ministry of War Transport Port belonging to.

MULTITUBULAR BOILERS—MAIN, AUXILIARY, OR DONKEY.

Manufacturers of Steel Worth Steel Company (Letter for Record S)

Total Heating Surface of Boilers 7140 Sq.ft. Is forced draught fitted yes Coal or Oil fired Coal

No. and Description of Boilers 3 Cylindrical Multitubular Working Pressure 220 lbs.

Tested by hydraulic pressure to 380 lbs. Date of test 4,5,7th August, 1941 No. of Certificate S73,74,76 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 Two spring-loaded special high lift.

Area of each set of valves per boiler { per Rule as approved 12.07 for ordinary valves Pressure to which they are adjusted 220 lbs. Are they fitted with easing gear yes
as fitted 5.52 sq.in.

In case of donkey boilers, state whether steam from main boilers can enter the donkey boiler No Donkey Boiler.

Smallest distance between boilers or uptakes and bunkers or woodwork 6'6" No woodwork oil fuel carried in the double bottom under boilers no Oil fuel.

Smallest distance between shell of boiler and tank top plating 2'4" Is the bottom of the boiler insulated yes

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

Thickness 1-13/32" Are the shell plates welded or flanged No Description of riveting: circ. seams { end D.R.
inter. None

Long. seams T.R.D.B.S. Diameter of rivet holes in { circ. seams 1 1/2"
long. seams 1 1/2" Pitch of rivets { 10"
4.25"

Percentage of strength of circ. end seams { plate 64.6
rivets 47.0 Percentage of strength of circ. intermediate seam { plate NONE
rivets 31

Percentage of strength of longitudinal joint { plate 85.0
rivets 93.5
combined 88.7

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

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

Length of plain part { top 9-3/16" Thickness of plates { crown 21/32" Description of longitudinal joint Welded.
bottom None

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

End plates in steam space: Material Steel Tensile strength 58240-68240 lbs. Thickness 1-7/16" Pitch of stays 21 1/2 x 21"

How are stays secured Double Nuts.

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

Mean pitch of stay tubes in nests 9.45" 9.7 Pitch across wide water spaces 14 1/2" x 8 1/4"

Girders to combustion chamber tops: Material Steel Tensile strength 64960 - 74960 lbs. Depth and Thickness of girder

at centre 10 1/4 x 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 - 68240 lbs. Thickness: Sides 25/32" Back 23/32" Top 25/32" Bottom 25/32"

Pitch of stays to ditto: Sides 9"x10-3/16" Back 9" x 9" Top 11"x7-5/8" Are stays fitted with nuts or riveted over Nuts

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

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

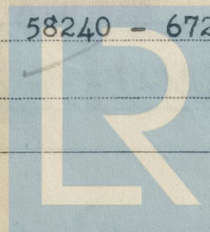
Pitch of stays at wide water space 14 1/2" x 9" Are stays fitted with nuts or riveted over Nuts

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

Diameter { At body of stay 3 1/2"
or 3-3/4" No. of threads per inch

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

Diameter { At turned off part 1-3/4", 1-7/8", 2", 2-1/8" No. of threads per inch 9

Lloyd's Register
Foundation

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