

REPORT ON BOILERS.

No. S-49

Received at London Office

24 AUG 1942

Date of writing Report July 9th 1941 When handed in at Local Office

Port of New York

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

Date, First Survey May 29th

Last Survey

July 8th 1941

Reg. Book.

on the British Government Freighters

S.S. "Ocean Pride"

(Number of Visits 31)

Gross 7173
Net 4278

Master

Built at S. Portland, Me.

By whom built Todd-Bath Iron Shipbuilding Corp. When built 1941

Engines made at Hamilton, Ohio

By whom made

General Machinery Corporation

When made 1941

Boilers made at Schenectady, N. Y.

By whom made

American Locomotive Co.

When made 1941

Nominal

Horse Power 503

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. 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 7-8-41

No. of Certificate S-49

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 load high lift

Area of each valve 5.52 sq. ins. 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 to 65000 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"

Lap of plates or 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 Morrison

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

Back 9" x 9"

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.

Area supported by each stay

100 sq. in.

Working pressure by rules

224 lbs.

End plates in steam space: Material Steel Thickness 1-7/16"

Pitch of stays 21 1/4" x 21"

How are stays secured Double Nuts

Working pressure by rules

242 lbs.

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 lbs.

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 rules

232 lbs.

Pitch of tubes 4 1/4" x 4-1/8"

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

SUPERHEATER.

Type N.E. Marine 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. F. Meekins, for Amos Lee & Co. Manufacturer.Dates of Survey During progress of work in shops - - May 29th 1941 to July 8th 1941
while building (During erection on board vessel - - -) Continuous AttendanceIs the approved plan of boiler forwarded herewith Retained for 90 Boilers
Total No. of visits Thirty-one days

GENERAL REMARKS (State quality of workmanship, opinions as to class, &c.) The 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 LMC with date, and 220 lbs. and FD in the Register Book.

Survey Fee ... £ See Mcky When applied for, 191
Travelling Expenses (if any) £ Report When received, 191

Committee's Minute NEW YORK AUG 5 1942

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

Shirley Park
Engineer Surveyor to Lloyd's Register of Shipping.Lloyd's Register
Foundation