

REPORT ON BOILERS.

No. 4134.

24 NOV 1941

Received at London Office

Writing Report 30. Sept 1941 When handed in at Local Office 30. Sept 1941 Port of GALVESTON

Survey held at GALVESTON Date, First Survey 19/8/41 Last Survey 8/9/1941

On the "S/S. OLYMPIC" (Number of Visits 5.) Tons { Gross 5335 Net 3352

Built at South Shields By whom built J. Redhead & Sons Yard No. — When built 1904-11

made at South Shields By whom made J. Redhead & Sons Engine No. — When made 1904

made at Portland, Ore, U.S.A. By whom made Willamette Iron & Steel Works Boiler No. — When made 1918

Horse Power 344 Owners Compania Internacional De Vapores Port belonging to Panama

TUBULAR BOILERS—MAIN, AUXILIARY, OR DONKEY.

Litted in vessel at New York, 1937. Prior to reclassification 1941.

Manufacturers of Steel Lukens Iron & Steel Co., Coatesville, Pa. (Letter for Record (S))

Heating Surface of Boilers 5500 sq. ft. Is forced draught fitted no Coal or Oil fired oil fired

Description of Boilers Two (2) Scotch type, multitubular Safety valves w.p. 170 lbs. Working Pressure 215 lbs. per sq. in.

by hydraulic pressure to 61.6 sq. ft. with 5-6" bars. No. of Certificate — Can each boiler be worked separately Yes

Firegrate in each Boiler No. and Description of safety valves to each boiler Live 3 1/2" diam. Spring loaded (Consolidated type) Yes

each set of valves per boiler { per Rule as fitted 19.25 sq. in. Pressure to which they are adjusted 170 lbs. Are they fitted with easing gear Yes

of donkey boilers, state whether steam from main boilers can enter the donkey boiler no donkey boiler (removed 1937)

distance between boilers or uptakes and bunkers or woodwork or woodwork Is oil fuel carried in the double bottom under boilers no

distance between shell of boiler and tank top plating 22" Is the bottom of the boiler insulated Yes

internal dia. of boilers 15'-0" Length 11'-9" Shell plates: Material Steel Tensile strength 60,000 lbs.

Are the shell plates welded or flanged no Description of riveting: circ. seams { end 3/8" riveted inter. 3/8" riveted

Double riveted double butt Straps. Rivets alt. Diameter of rivet holes in { circ. seams 1 3/8" Pitch of rivets { 2 rivets @ 4" pitch long. seams 1 9/16" 5 rivets @ 9 9/16" pitch

age of strength of circ. end seams { plate rivets Percentage of strength of circ. intermediate seam { plate rivets

age of strength of longitudinal joint { plate rivets combined Working pressure of shell by Rules

of butt straps { outer 1" inner 1 1/2" No. and Description of Furnaces in each Boiler 3, corrugated.

Steel. Tensile strength 60,000 lbs. Smallest outside diameter 48 1/16"

of plain part { top Thickness of plates { crown 2 1/32" Description of longitudinal joint welded. bottom

ms of stiffening rings on furnace or c.c. bottom Working pressure of furnace by Rules

tes in steam space: Material Steel Tensile strength 60,000 lbs. Thickness 1 1/4" Pitch of stays 18" x 17 3/4"

stays secured Screwed & nutted inside & outside Working pressure by Rules 13/16"

ates: Material { front Steel Tensile strength { 60,000 lbs. Thickness { 7/8" back Steel 60,000 lbs.

ch of stay tubes in nests 8 1/4" Pitch across wide water spaces 14" Working pressure { front back

to combustion chamber tops: Material Steel Tensile strength 60,000 lbs. sq. in. Depth and thickness of girder

11 1/2" x 3/4" Length as per Rule Distance apart 8 1/2" No. and pitch of stays

4 at 6 3/4" pitch Working pressure by Rules Combustion chamber plates: Material Steel

strength 60,000 lbs. Thickness: Sides 11/16" Back 23/32" Top 11/16" Bottom 15/16"

stays to ditto: Sides 6 3/4" long 8" vert. Back 7 1/2" vert. Top 6 3/4" x 8" Are stays fitted with nuts or riveted over end plates

pressure by Rules Front plate at bottom: Material Steel Tensile strength 60,000 lbs. Thickness 13/16"

13/16" Lower back plate: Material Steel Tensile strength 60,000 lbs. Thickness 13/16"

stays at wide water space 15" x 9 1/2" Are stays fitted with nuts or riveted over nutted both sides

2 stays at wing 9 1/4" riv. doubling as per plan. Tensile strength 60,000 lbs.

Pressure Main stays: Material Steel

At body of stay, 3 3/8" No. of threads per inch 6. Area supported by each stay 319.5 sq. ins.

Over threads 3 3/4" Tensile strength 60,000 lbs.

pressure by Rules Screw stays: Material Steel

At turned off part, 15/8" No. of threads per inch 10 Area supported by each stay 54.0 sq. ins. (back plate)

Over threads 15/8" Tensile strength 60,000 lbs.

Working pressure by Rules _____ Are the stays drilled at the outer ends Yes Margin stays: Diameter { At turned off part, or Over thread 1 1/8" }
No. of threads per inch 19 Area supported by each stay 60 sq in. Working pressure by Rules _____
Tubes: Material Steel External diameter { Plain 3" Stay 5" and 3" } Thickness { 9 B.W.G. Both 1/4" } No. of threads per inch 11
Pitch of tube PLAIN 4 1/8" x 1 1/8" Working pressure by Rules _____ Manhole compensation: Size of opening _____
END shell plate 12" x 16" Section of compensating ring 3-2 1/2 stays around No. of rivets and diameter of rivet holes _____
Outer row rivet pitch at ends _____ Depth of flange if manhole flanged _____ Steam Dome: Material _____
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 of rivets _____
stays _____ Inner radius of crown _____ Working pressure by Rules _____ Diameter of rivet holes _____
How connected to shell _____ Size of doubling plate under dome _____
of rivets in outer row in dome connection to shell _____

Type of Superheater none Manufacturers of { Tubes _____ Steel castings _____ }
Number of elements _____ Material of tubes _____ Internal diameter and thickness of tubes _____
Material of headers _____ Tensile strength _____ Thickness _____ Can the superheater be shut off from the boiler _____
the boiler be worked separately _____ 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 _____ Working pressure _____
Rules _____ Pressure to which the safety valves are adjusted _____ Hydraulic test pressure _____
tubes _____, castings _____ and after assembly in place _____ Are drain cocks or valves _____
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, _____

Dates of Survey { During progress of work in shops - - - } _____ Are the approved plans of boiler and superheater forwarded herewith (If not state date of approval.) _____
while building { During erection on board vessel - - - } _____ Total No. of visits _____

Is this Boiler a duplicate of a previous case See plan If so, state Vessel's name and Report No. _____

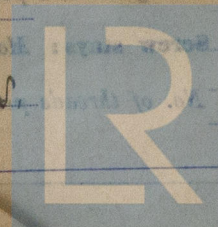
GENERAL REMARKS (State quality of workmanship, opinions as to class, &c.) The Scuttlings & grating of these boilers have now been checked & found to have been built in accordance with the accompanying plans. The date of build could not be ascertained but presumed about 1918. They are stated to have been in use and taken on of some vessel, but name of vessel & period of service not ascertainable. In 1934 the boilers were reconditioned by Robbins Dry Dock & Repair Co., New York, and installed in the Olympic under the inspection of the Boiler inspectors of the Dept. Bureau, Marine, Inspection & Navigation. The boilers were thoroughly cleaned, sealed, painted externally, relagged, all plain & stay tubes renewed, all tell tale holes in staybolts & complete set of new mountings & safety valves fitted. The safety valves of consolidated type & stamped for 170 lbs working pressure. Furnace fronts reconditioned, internal feed piping renewed. Blower tubes & a few screw stays renewed & after repairs the boilers have now been thoroughly examined & tested to a hydrostatic pressure of 270 lbs sq in, examined under steam & safety valves adjusted to 170 lbs W.P.
The workmanship and materials are good, and the boilers found to have been efficiently installed in the vessel.

Survey Fee ... £ 60.00 : When applied for, 30/9/1941 WR.
Travelling Expenses (if any) £ _____ : When received, _____

Lin Rennie & M. Dickson
Engineer Surveyors to Lloyd's Register of

Committee's Minute NEW YORK OCT 22 1941

Assigned 2 NB MADE 18, REFITTED 37 - 170 LBS.



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Foundation