

REPORT ON BOILERS.

No. 3498

Received at London Office

- 8 SEP 1942

Date of writing Report 19 When handed in at Local Office 19 Port of SEATTLE, WASHINGTON

No. in Survey held at Seattle, Washington Date, First Survey May 7 Last Survey June 18 19 42

Reg. Book. on the Todd-California Shipbuilding Corp., Yard No. 5/s "Ocean Victory" (Number of Visits 16) Gross Tons 7174 Net Tons 4272

Master Built at Richmond, Calif. By whom built Todd-Calif. S.B. Corp. When built 1942.

Engines made at Hamilton, Ohio. By whom made General Machinery Corporation When made 1942.

Boilers made at Seattle, Washington By whom made Puget Sound Machinery Depot When made 1942

Registered Horse Power 505 Owners British Government Port belonging to London.

MULTITUBULAR BOILERS—MAIN, ~~XXXXXXXXXXXX~~ ~~XXXXXXXXXXXX~~—Manufacturers of Steel Worth, Carnegie-Illinois, S. Cos.

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

Boilers One - Scotch, single ended Working Pressure 220 lbs Tested by hydraulic pressure to 380 lbs Date of test June 17th P.S.M.D.

No. of Certificate 26 Can each boiler be worked separately Yes Area of fire grate in each boiler 52 sq.ft. No. and Description of safety valves to each boiler Area of each valve Pressure to which they are adjusted

Are they fitted with easing gear 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 (65,000) dia. of boilers 14' 9" Length 11' 9"

Material of shell plates Steel Thickness 1-13/32" Range of tensile strength (75,000) Are the shell plates welded or flanged No

Descrip. of riveting: cir. seams D.R. long. seams T.R.D.B.S. Diameter of rivet holes in long. seams 1 1/2" Pitch of rivets 5" & 10"

Top of plates or width of butt straps 22-1/8" Per centages of strength of longitudinal joint rivets 93.4 plate 85.0 Working pressure of shell by rules 221.2 lbs Size of manhole in 12" x 16" Size of compensating ring Flanged No. and Description of Furnaces in each boiler 3 - Corrugated Material Steel Outside diameter 44-9/16" Length of plain part top 7-13/16" crown 21/32" bottom 7-13/16" thickness of plates bottom 21/32"

Description of longitudinal joint Forge weld No. of strengthening rings - Working pressure of furnace by the rules 230 lbs Combustion chamber plates: Material Steel Thickness: Sides 25/32" Back 25/32" Top 25/32" Bottom 25/32" Pitch of stays to ditto: Sides 10-3/16" Back 9" x 9"

Top (x 11" If stays are fitted with nuts or riveted heads (Nuts inside Rivets out Working pressure by rules 224 # Material of stays Steel Area at smallest part (2.06" (81.0 sq.ins. (224 lbs Dblr. 1-1/32"

Pitch of stays 21" How are stays secured D.Nuts Working pressure by rules 221 Material of stays Steel Area at smallest part 9.6 sq. ins. Area supported by each stay 441 sq. Working pressure by rules 245 # Material of Front plates at bottom Steel Thickness 1-1/32" Material of

Lower back plate Steel Thickness 1-1/32" Greatest pitch of stays 9" x 9" Working pressure of plate by rules 232 Diameter of tubes 3" Pitch of tubes 4-1/4" Material of tube plates Steel Thickness: Front 1-1/32" Back 13/16" Mean pitch of stays 9-7/16" Pitch across wide

water spaces 14 1/2" Working pressures by rules 232 lbs Girders to Chamber tops: Material Steel Depth and thickness of girder at centre (D. 10 1/4" (x 7/8" Length as per rule 34" Distance apart 11" Number and pitch of Stays in each 3 x 7-5/8"

Working pressure by rules 229 Steam dome: description of joint to shell - % 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 Date of Approval of Plan 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

VERTICAL DONKEY BOILER—No. Description Manufacturers of steel

Made at By whom made When made Where fixed Working pressure

Tested by hydraulic pressure to Date of test No. of Certificate Fire grate area Description of safety valves

No. of safety valves Area of each Pressure to which they are adjusted If fitted with easing gear If steam from main boilers can

Enter the donkey boiler Dia. of donkey boiler Length Material of shell plates Thickness Range of tensile

Strength Descrip. of riveting long. seams Dia. of rivet holes Whether punched or drilled Pitch of rivets

Pitch of plating Per centage of strength of joint Rivets Plates Working pressure of shell by rules Thickness of shell crown plates

Radius of do. No. of Stays to do. Dia. of stays Diameter of furnace Top Bottom Length of furnace

Thickness of furnace plates Description of joint Working pressure of furnace by rules Thickness of furnace crown

Plates Radius of do. Stayed by Diameter of uptake Thickness of uptake plates

Thickness of water tubes

The foregoing is a correct description,

PUGET SOUND MACHINERY DEPOT Manufacturer.

Dates During progress of work in shops - - May: 7, 11, 12, 13, 14, 19, 25, 27. June: 1, 3, 6, 10, 11, 16, 17, 18

Survey While building During erection on board vessel - -

Total No. of visits 16

Is the approved plan of main boiler forwarded herewith

" " " donkey " " "

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GENERAL REMARKS (State quality of workmanship, opinions as to class, &c.)

The Scotch marine single ended boiler herein mentioned has been built under special survey and in accordance with the Rules and approved plan. The materials tested as required by the Rules and together with workmanship, found good throughout. This boiler has now been forwarded to Todd-California Shipbuilding Corp., Richmond, California, stated to be fitted on board their Hull No. . When this has been done in accordance with the Rules, to the Surveyor's satisfaction the boiler will be eligible in my opinion to receive the Notation 220 lbs in the Register Book.

Certificate (if required) to be sent to

(The Surveyors are requested not to write on or below the space for Committee's Minute.)

The amount of Entry Fee	.. £	:	:	When applied for.
Special	#	108. 61	:19.....
Donkey Boiler Fee £	:	:	When received,
Travelling Expenses (if any)	£		\$4.00	:19.....

Committee's Minute NEW YORK AUG 26 1942

Assigned See Richmond Rpt. NO. 30.

W. Smith
Engineer Surveyor to Lloyd's Register of Shipping



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