

# REPORT ON BOILERS.

SEA. No. 3457

Received at London Office

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 November 14th, Last Survey January 19 1942

Reg. Book. on the Todd-California Shipbuilding Corp., Yard No. 19, "Ocean Vista" Tons { Gross 7174 Net 4272

Master Built at Richmond, Calif. By whom built Todd-Calif. Shipbldg. Corp. When built 1941

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

Boilers made at Seattle, Wash. By whom made Puget Sound Machinery Depot When made 1941

Registered Horse Power 505 Owners British Government Port belonging to London

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

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

Boilers One - Scotch, Single Ended Working Pressure 220 lbs Tested by hydraulic pressure to 380 lbs Date of test Jan. 9th

P.S.M.D.

No. of Certificate No. 11 Can each boiler be worked separately 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

Material of shell plates Steel Thickness 1-13/32" Range of tensile strength (65,000 to 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"

~~XXXXXXXXXXXX~~ 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

head 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" Thickness of plates crown 21/32" bottom 7-13/16" bottom 21/32"

Description of longitudinal joint Forge weld No. of strengthening rings - Working pressure of furnace by the rules 230 lbs Combustion chamber

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"

op (x 11" If stays are fitted with nuts or riveted heads (Nuts inside Rivets out Working pressure by rules 224 lbs Material of stays Steel Area at

vallest part (2.40" Area supported by each stay (91.6 Working pressure by rules (232 End plates in steam space: Material Steel Thickness 1-1/32"

itch 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.

rea supported by each stay 441 sq. Working pressure by rules 245 # Material of Front plates at bottom Steel Thickness 1-1/32" Material of

ower 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"

itch 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

ter spaces 14 1/2" Working pressures by rules 232 lbs Girders to Chamber tops: Material Steel Depth and thickness of

der at centre (x 7/8" Length as per rule 34" Distance apart 11" Number and pitch of Stays in each 3- 7-5/8"

orking pressure by rules 229 Steam dome: description of joint to shell - % of strength of joint -

iameter - Thickness of shell plates - Material - Description of longitudinal joint - Diam. of rivet holes -

tech of rivets - Working pressure of shell by rules - Crown plates - Thickness - How stayed -

PERHEATER. Type Date of Approval of Plan Tested by Hydraulic Pressure to

te of Test Is a Safety Valve fitted to each Section of the Superheater which can be shut off from the Boiler

meter of Safety Valve Pressure to which each is adjusted Is Easing Gear fitted

## VERTICAL DONKEY BOILER—

No.	Description	Manufacturers of steel			
de at	By whom made	When made	Where fixed	Working pressure	
ed by hydraulic pressure to	Date of test	No. of Certificate	Fire grate area	Description of safety valves	
of safety valves	Area of each	Pressure to which they are adjusted	If fitted with easing gear	If steam from main boilers can	
or the donkey boiler	Dia. of donkey boiler	Length	Material of shell plates	Thickness	Range of tensile
ngth	Descrip. of riveting long. seams	Dia. of rivet holes	Whether punched or drilled	Pitch of rivets	
of plating	Per centage of strength of joint	Rivets Plates	Working pressure of shell by rules	Thickness of shell crown plates	
ius of do.	No. of Stays to do.	Dia. of stays	Diameter of furnace Top	Bottom	Length of furnace
knness of furnace plates	Description of joint	Working pressure of furnace by rules	Thickness of furnace crown		
ss	Radius of do.	Stayed by	Diameter of uptake	Thickness of uptake plates	
knness of water tubes					

The foregoing is a correct description,

\*Puget Sound Machinery Depot

By A. S. Kasper

Nov: 14, 17, 19, 24, 26. Dec: 1, 2, 5, 7, 11, 12, 18, 22, 27, 30.

Jan: 2, 6, 9, 15, 19.

During progress of work in shops - - -

During erection on board vessel - - -

Total No. of visits 20

Is the approved plan of main boiler forwarded herewith

" " " donkey " "

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009943-009953-0181



**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) £	:	3.00	.....19.....

Committee's Minute **NEW YORK JUL 22 1942**

Assigned *See Richmond Kit. NO. 19*

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



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