

# REPORT ON WATER TUBE BOILERS.

No. 4922

Received at London Office 7 SEP 1948

of writing Report 2nd July, 1948 When handed in at Local Office 2nd July, 1948 Port of Galveston, Texas  
in Survey held at Galveston, Texas Date, First Survey 4th May Last Survey 21st May, 1948  
Bk. 24 on the S/S "THAUMASTUS" (Number of Visits 4) Gross 10670 Tons Net 6315  
at Portland, Oregon By whom built Kaiser Co., Inc. When built 1945  
es made at Lynn, Mass. By whom made General Electric Company When made 1945  
s made at Chattanooga, Tenn. By whom made Combustion Engineering Co. Hedges, Walsh & Weidner Division When made 1945  
nal Horse Power 1425 Owners Anglo-Saxon Petroleum Co., Ltd. Port belonging to London

TER TUBE BOILERS—MAIN, AUXILIARY, OR DONKEY.—Manufacturers of Steel Bethlehem Steel S.P. & Worth Steel Co.

of Approval of plan ABS & USCG Number and Description or Type  
Boilers Two single pass straight tube Working Pressure 500 lb. Tested by Hydraulic Pressure to 750 lbs. Date of Test 11/5/48  
of Certificate sect. header Can each boiler be worked separately Yes Total Heating Surface of Boilers 743.11 sq. ft.  
ced draught fitted Yes Area of fire grate (coal) in each Boiler Oil fired  
nd type of burners (oil) in each boiler Four Todds Hexpress Type No. and description of safety valves on  
boiler One 2 1/2" Dia. Duplex Consolidated Main Supht. Area of each set of valves per boiler {per rule 9.8 } Pressure to which they  
One 1 1/2" Dia. Simplex " as fitted 1.76 } 11.56 sq. ins.  
Main 500 lbs. Supht. 464 lbs. Are they fitted with easing gear Yes In case of donkey boilers state whether steam from main boilers can enter  
donkey boiler - Smallest distance between boilers or uptakes and bunkers or woodwork 23'-9" Height of boiler 21'-0"  
b and Length 11'-10" & 17'-5 1/2" Steam Drums:—Number in each boiler One Inside diameter 42"  
ness of plates 1 19/32" & 3/4" Range of Tensile Strength 70000 lbs. min. Are drum shell plates welded  
nged Fusion Welded If fusion welded, state name of welding firm Combustion Engineering Co. Have all the requirements of the rules  
lass I vessels been complied with ABS & USCG Description of riveting:—Cir. seams - long. seams -  
eter of rivet holes in long. seams - Pitch of rivets - Thickness of straps - Percentage strength of  
joint:—Plate - Rivet - Diameter of tube holes in drum 4 1/32" Pitch of tube holes 7"  
ntage strength of shell in way of tubes - Steam Drum Heads or Ends:—Range of tensile strength 65000 lbs. min.  
ness of plates 1 1/4" Radius or how stayed Ellipsoidal Size of manhole or handhole 12" x 16"  
ch boiler - Inside Diameter - Thickness of plates - Range of tensile strength - Are drum shell plates  
d or flanged - If fusion welded, state name of welding firm - Have all the requirements of the rules  
lass I vessels been complied with - Description of riveting:—Cir. seams - long. seam -  
eter of rivet holes in long. seams - Pitch of rivets - Thickness of straps -  
ntage strength of long. joint:—Plate - Rivet - Diameter of tube holes in drum - Pitch of tube holes -  
ntage strength of drum shell in way of tubes - Water Drum Heads or Ends:—Range of Tensile strength -  
ness of plates - Radius or how stayed - Size of manhole or handhole -  
ers or Sections:—Number 14 Material - Thickness 9/16" Tested by Hydraulic Pressure to 750 lbs.  
s:—Diameter 1 1/2", 2" & 4" Thickness 13, 10 & 5 or 6 Number 1148, 56 & 46 Steam Dome or Collector:—Description of  
to Shell - Inside diameter - Thickness of shell plates - Range of tensile  
th - Description of longitudinal joint - If fusion welded, state name of welding  
- Have all the requirements of the rules for Class I vessels been complied with - Diameter of rivet holes -  
of rivets - Thickness of straps - Percentage strength of long. joint - Plate - Rivet -  
n or End Plates:—Range of tensile strength - Thickness - Radius or how stayed -  
PERHEATER. Drums or Headers:—Number in each boiler Two Inside Diameter 6 1/2" x 6 1/2" square  
ness 3/4" Material Seamless Steel Range of tensile strength 55000 lbs. min. Are drum shell plates welded  
nged - If fusion welded, state name of welding firm - Have all the requirements of the rules  
lass I vessels been complied with - Description of riveting:—Cir. seams - long. seams -  
eter of rivet holes in long. seams - Pitch of rivets - Thickness of straps - Percentage strength of  
joint:—Plate - Rivet - Diameter of tube holes in drum - Pitch of tube holes - Percentage strength of  
shell in way of tubes - Drum Heads or Ends:—Thickness - Range of tensile strength -  
s or how stayed - Size of manhole or handhole 3 3/8" x 4 1/4" Number, diameter, and thickness of tubes 145, 1 1/2" & 120"  
d by Hydraulic Pressure to 750 lbs. Date of Test 11/5/48 Is a safety valve fitted to each section of the superheater which  
e shut off from the boiler Yes No. and description of Safety Valves One 1 1/2" dia. Simplex, Consolidated Area of each set  
ves 1.76 sq. ins. Pressure to which they are adjusted 464 lbs. Is easing gear fitted Yes  
re Gear. Has the spare gear required by the rules been supplied Yes

The foregoing is a correct description,

Manufacturer.

es } During progress of } - Is the approved plan of boiler forwarded herewith Yes  
urvey } work in shops - }  
le } During erection on }  
ing } board vessel - }  
Total No. of visits -

boiler a duplicate of a previous case Yes If so, state vessel's name and report No. T2 Tanker Class (P.T.O.)

GENERAL REMARKS (State quality of workmanship, opinions as to class, &c.) The two watertube boilers were constructed  
er the supervision of the American Bureau of Shipping & U.S.C.G., have now been hydrostatically  
ted and examined throughout and under steam. The boilers of this vessel are in good condition  
eligible, in my opinion, to be classed with this Society with notation of Boiler Survey 5, 48.

urvey Fee £ 7- : } When applied for, 19  
ravelling Expenses (if any) £ 7- : } When received, 19

ommittee's Minute NEW YORK AUG 18 1948  
igned 2 WTB (SPT) 500 lbs

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James L. Lloyds  
Engineer Surveyor to Lloyd's Register of Shipping

003046-003055-0140



Port No. 2  
C.E.Co. 12018  
500 lbs.  
Hydro 750 lbs.  
Heads 65000 lbs.  
Shell 70000 lbs.  
C.G.  
1-20-45  
Test 1000 lbs.

Starboard No. 1  
C.E.Co. 12017  
500 lbs.  
Hydro 750 lbs.  
Heads 65000 lbs.  
Shell 70000 lbs.  
C.G.  
1-20-45  
Test 1000 lbs.



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