

# REPORT ON WATER TUBE BOILERS.

No. 8476  
3 - JUL 1947

Received at London Office

of writing Report: 23rd May, 1947 When handed in at Local Office: 28th May, 1947 Port of Baltimore, Maryland

o. in Survey held at Baltimore, Maryland Date, First Survey April 1st, Last Survey May 2nd, 1947

7. Bk. 946 on the S.S. "CAPTAIN FARMAKIDES" (ex "James M. Goodhue") (Number of Visits 3) {Gross 7176  
Tons {Net 4380

t at Los Angeles, California By whom built California Shipbuilding Corp. When built 1943

mes made at San Francisco, Cal. By whom made Jushua Hendy Iron Works When made 1943

ers made at California By whom made Western Pipe and Steel Company When made 1943

7. ninal Horse Power 660 Owners Messrs. Rethymnis and Kulukundis Port belonging to Panama

ATER TUBE BOILERS—MAIN, AUXILIARY, OR DONKEY.—Manufacturers of Steel Carnegie Steel Company

of Approval of plan - Number and Description or Type  
Boilers Two B and W W.T. Cross drum Working Pressure 240 Tested by Hydraulic Pressure to 375 Date of Test 2-23-43

of Certificate - Can each boiler be worked separately Yes Total Heating Surface of Boilers 9704 sq. ft.  
forced draught fitted Yes Area of fire grate (coal) in each boiler - plus 529 sq. ft. Total for 2600 = 10233 sq. ft.

ind type of burners (oil) in each boiler Four B and W oil burners No. and description of safety valves on  
boiler One 4" Consolidated duplex - Spring Covered Area of each set of valves per boiler {per rule 23.78 sq. inches  
as fitted 25.132 sq. inches Pressure to which they

adjusted 240 lbs. per sq. in. 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 - Height of boiler 16 - 5 5/8"

th and Length 14'-7 3/4" x 18'-7 1/2" Steam Drums:—Number in each boiler One Inside diameter 48" 47 3/8" in plan

ickness of plates 15/16" Range of Tensile Strength 70,000 lbs. Are drum shell plates welded  
anged welded If fusion welded, state name of welding firm Combustion Engineering Company, N. Y. Have all the requirements of the rules

Class I vessels been complied with Built under A.B.S. & U.S.C.G. Description of riveting:—Cir. seams - long. seams -

meter 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 1/64" Pitch of tube holes 7"

centage strength of shell in way of tubes 42.5% Steam Drum Heads or Ends:—Range of tensile strength 65,000 lbs.  
ickness of plates 15/16" Radius ~~38"~~ 38" Size of manhole or handhole 12 x 16 Water Drums:—Number

ach boiler None Inside Diameter Square header Thickness of plates wall 3/4" Range of tensile strength 65,000-70,000 Are drum shell plates  
led or flanged Solid drawn If fusion welded, state name of welding firm - Have all the requirements of the rules

Class I vessels been complied with A.B.S. and U.S.C.G. Description of riveting:—Cir. seams - long. seam -

meter of rivet holes in long. seams - Pitch of rivets - Thickness of straps -  
centage strength of long. joint:—Plate - Rivet - Diameter of tube holes ~~4 1/32"~~ header 4 1/32" Pitch of tube holes 7"

centage strength of drum shell in way of tubes - Water Drum Heads or Ends:—Range of Tensile strength -  
ickness of plates - Radius or how stayed - Size of manhole or handhole -

aders or Sections:—Number 22 Material Steel Thickness 9/16" Tested by Hydraulic Pressure to 375 lbs.  
es:—Diameter 2" and 4" Thickness 10 to 6 B.W.G. Number 602 and 44 Steam Dome or Collector:—Description of

to Shell - Inside diameter - Thickness of shell plates - Range of tensile  
ngth - 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 -  
h of rivets - Thickness of straps - Percentage strength of long. joint - Plate - Rivet -

own or End Plates:—Range of tensile strength - Thickness - Radius or how stayed -  
UPERHEATER. DRUMS or Headers:—Number in each boiler Two (2) Inside Diameter 6" square

ickness 5/8" Material Steel Range of tensile strength 60,000 to 70,000 lbs. Are drum shell plates welded  
anged Forged If fusion welded, state name of welding firm - Have all the requirements of the rules

Class I vessels been complied with A.B.S. and U.S.C.G. Description of riveting:—Cir. seams - long. seams -

meter of rivet holes in long. seams - Pitch of rivets - Thickness of straps - Percentage strength of  
joint:—Plate - Rivet - Diameter of tube holes in drum 2 1/64" Pitch of tube holes 3 3/4"

shell in way of tubes - Drum Heads or Ends:—Thickness - Range of tensile strength -  
as or how stayed - Size of manhole or handhole - Number, diameter, and thickness of tubes 22-2" 10 B.W.G.

ted by Hydraulic Pressure to 375 lbs. Date of Test 2-23-43 Is a safety valve fitted to each section of the superheater which  
be shut off from the boiler Yes No. and description of Safety Valves One high lift Spring Covered Area of each set

valves 1.76 square inches Pressure to which they are adjusted 230 lbs. Is easing gear fitted Yes  
are Gear. Has the spare gear required by the rules been supplied Yes

The foregoing is a correct description,

Manufacturer.

ates } During progress of }  
Survey } work in shops - - }  
hile } During erection on }  
lding } board vessel - - - }

Is the approved plan of boiler forwarded herewith

Total No. of visits

his boiler a duplicate of a previous case If so, state vessel's name and report No. S.S. "VASILIOS E. KULUKUNDIS"

GENERAL REMARKS (State quality of workmanship, opinions as to class, &c.) The W.T. boilers described above have, together  
sh all mountings, been opened up, examined throughout, and placed in order and again examined under steam, and the  
ety valves adjusted. It is the opinion of the undersigned that the workmanship is good, the boilers well installed,  
suitable to be classed with the Society, with record of BS 4-47, when feed water regulators have been fitted to port  
and starboard boilers.

Survey Fee £ 115.00 } When applied for, 19  
Travelling Expenses (if any) £ 5.25 } When received, 19

Committee's Minute  
signed 2 WTB (VPT) 240 lbs. NEW YORK JUN 4 1947 J.P.P.

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Foundation  
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Engineer Surveyor to Lloyd's Register of Shipping.