

# REPORT ON WATER TUBE BOILERS.

No. 5006

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Report 18<sup>TH</sup> JUNE 1948 When handed in at Local Office 19<sup>TH</sup> JUNE 1948 Port of GALVESTON TEXAS  
 Survey held at GALVESTON TEXAS Date, First Survey 26<sup>TH</sup> MAY 48 Last Survey 12<sup>TH</sup> JUNE 1948  
 on the SS "MESA VERDE" (Number of Visits 4) Tons {Gross 10640  
 Net 6313  
 By whom built KAISER Co. INC When built 1944-11  
 By whom made GENERAL ELECTRIC Co When made 1944-11  
 By whom made COMBUSTION ENGINEERING Co When made 1944-11  
 Owners BRITISH TANKERS Co. Port belonging to LONDON

R TUBE BOILERS—MAIN, AUXILIARY, OR DONKEY.—Manufacturers of Steel BETHLEHEM STEEL SP. + WORTH STEEL CO

Approval of plan ABS + USCG. Number and Description or Type 1000 LBS 4-1-4  
 TWO SINGLE PASS STRAIGHT TUBE SECT HEAD Working Pressure 500 LBS Tested by Hydraulic Pressure to 750 LBS Date of Test 1 JUNE 48  
 Certificate USCG 777(S) 778(P) Can each boiler be worked separately YES Total Heating Surface of Boilers 113574

Draught fitted YES Area of fire grate (coal) in each Boiler OIL FIRED  
 Type of burners (oil) in each boiler FOUR TODDS "HEXPRESS" TYPE No. and description of safety valves on  
 ONE 2 1/2" DIA DUPLEX CONSOLIDATED MAIN Pressure to which they  
 ONE 1 1/2" DIA SIMPLEX " SUPHT Area of each set of valves per boiler {per rule 9.8  
 as fitted 1.76} 11.56 SQ INS

Are they fitted with easing gear YES In case of donkey boilers state whether steam from main boilers can enter  
 Smallest distance between boilers or uptakes and bunkers or woodwork 23'-9" Height of boiler 21'-0"  
 Length 11'-10" + 17'-5 1/2" Steam Drums:—Number in each boiler ONE Inside diameter 42"  
 of plates 1 1/2" + 3/4" Range of Tensile Strength 70000 LBS MIN Are drum shell plates welded  
 FUSION WELDED If fusion welded, state name of welding firm COMBUSTION ENGINEERING CO Have all the requirements of the rules

vessels been complied with ABS + USCG Description of riveting:—Cir. seams ✓ long. seams ✓  
 of rivet holes in long. seams ✓ Pitch of rivets ✓ Thickness of straps ✓ Percentage strength of  
 Plate ✓ Rivet ✓ Diameter of tube holes in drum 4 1/2" Pitch of tube holes 7"  
 strength of shell in way of tubes ✓ Steam Drum Heads or Ends:—Range of tensile strength 65000 LBS MIN  
 of plates 1 1/4" Radius or how stayed ELLIPSOIDAL Size of manhole or handhole 12 x 16" Water Drums:—Number  
 boiler ✓ Inside Diameter ✓ Thickness of plates ✓ Range of tensile strength ✓ Are drum shell plates

flanged ✓ If fusion welded, state name of welding firm ✓ Have all the requirements of the rules  
 I vessels been complied with ✓ Description of riveting:—Cir. seams ✓ long. seam ✓  
 of rivet holes in long. seams ✓ Pitch of rivets ✓ Thickness of straps ✓  
 strength of long. joint:—Plate ✓ Rivet ✓ Diameter of tube holes in drum ✓ Pitch of tube holes ✓

strength of drum shell in way of tubes ✓ Water Drum Heads or Ends:—Range of Tensile strength ✓  
 of plates ✓ Radius or how stayed ✓ Size of manhole or handhole ✓  
 or Sections:—Number 14 ✓ Material 9/16" ✓ Tested by Hydraulic Pressure to 750 LBS.  
 Diameter 1 1/4" + 2" + 4" Thickness 13, 10 + 5 or 6 Number 1148, 56 + 46 Steam Dome or Collector:—Description of  
 as poll. ✓ Inside diameter ✓ Thickness of shell plates ✓ Range of tensile

✓ 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 ✓  
 rivets ✓ Thickness of straps ✓ Percentage strength of long. joint ✓ Plate ✓ Rivet ✓  
 or End Plates:—Range of tensile strength ✓ Thickness ✓ Radius or how stayed ✓

REHEATER, Drums or Headers:—Number in each boiler TWO ✓ Inside Diameter 6 1/2 x 6 1/2" SQUARE  
 3/4" ✓ Material SEAMLESS STEEL Range of tensile strength 55000 LBS MIN Are drum shell plates welded  
 If fusion welded, state name of welding firm ✓ Have all the requirements of the rules

vessels been complied with ✓ Description of riveting:—Cir. seams ✓ long. seams ✓  
 of rivet holes in long. seams ✓ Pitch of rivets ✓ Thickness of straps ✓ Percentage strength of  
 Plate ✓ Rivet ✓ Diameter of tube holes in drum ✓ Pitch of tube holes ✓ Percentage strength of  
 in way of tubes ✓ Drum Heads or Ends:—Thickness ✓ Range of tensile strength ✓  
 how stayed ✓ Size of manhole or handhole 3 3/8 x 4 1/4" Number, diameter, and thickness of tubes 145, 1 1/4" + 120"

Hydraulic Pressure to 750 LBS Date of Test Is a safety valve fitted to each section of the superheater which  
 cut off from the boiler YES No. and description of Safety Valves ONE 1 1/2" DIA SIMPLEX CONSOLIDATED Area of each set  
 1.76 SQ INS Pressure to which they are adjusted 464 LBS Is easing gear fitted YES

Gear. Has the spare gear required by the rules been supplied YES  
 The foregoing is a correct description,  
 Manufacturer.

During progress of work in shops - - - ✓ Is the approved plan of boiler forwarded herewith YES  
 During erection on board vessel - - - ✓ Total No. of visits ✓

Is a duplicate of a previous case YES If so, state vessel's name and report No. T2 TANKER CLASS.

GENERAL REMARKS (State quality of workmanship, opinions as to class, &c.) The two watertube boilers were constructed under  
 revision of the American Bureau of Shipping + USCG. have now been hydrostatically tested + examined throughout  
 steam. The Boilers + Machinery of this vessel are in good condition + eligible, in my opinion, to be classed  
 this Society with a record of LMC 6-48. 2WTB 500 LBS (SPT)

Fee £ ✓ : When applied for, 19  
 Shipping Expenses (if any) £ ✓ : When received, 19

Committee's Minute  
 ed 2 W.T.B. 500 lbs (Spt)

NEW YORK JUL 14 1948

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PORT

USCG 7778  
CECO 9669  
500 LBS  
HYDRO 750 LBS  
BETH SP + WORTH  
STEEL CO  
HEADS 65000  
SHELL 70000  
EQC  
10-12-44  
1000 LBS 4-1-44  
M.D.M.  
4-8-44  
CECO.HB.DIV N° 2616-2

STARBOARD

USCG 7777  
CECO 9667  
500 LBS  
HYDRO 750 LBS  
BETHLEHEM STEEL  
CO. S.P. + WORTH STEEL  
HEADS 65000  
SHELL 70000  
EQC  
10-12-44  
1000 LBS 4-1-44  
M.D.M.  
4-7-44  
CECO.HB.DIV. N° 2614-1.



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