

# REPORT ON WATER TUBE BOILERS.

No. 1005  
3- AUG 1948

Received at London Office.

Writing Report 15<sup>TH</sup> JUNE 1948 When handed in at Local Office 16<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 9<sup>TH</sup> JUNE 1948  
Bk. on the SS THEOBALDIUS EX SILVER CREEK (Number of Visits 4) { Gross 10662  
Tons { Net 6323  
at PORTLAND OREGON By whom built KAISER CO INC When built 1945-8  
By whom made GENERAL ELECTRIC CO When made 1945-8  
By whom made COMBUSTION ENGINEERING CO When made 1945-8  
By whom made HEDGES, WALSH & WEIDNER DIVISION  
Owners ANGLO-SAXON PETROLEUM CO LTD Port belonging to LONDON  
Horse Power 1425

WATER TUBE BOILERS—MAIN, AUXILIARY, OR DONKEY.—Manufacturers of Steel BETHLEHEM STEEL SP. & WORTH STEEL CO  
of Approval of plan ABS. & USCG Number and Description or Type 1000 LBS  
Boilers TWO SINGLE PASS STRAIGHT TUBE SECT HEADER. Working Pressure 500 LBS Tested by Hydraulic Pressure to 750 LBS Date of Test 28 MAY 48  
of Certificate ABS N1074 @ N1075 Can each boiler be worked separately YES Total Heating Surface of Boilers 743 11354 S.F.  
forced draught fitted YES Area of fire grate (coal) in each Boiler OIL FIRED  
and 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 HT Area of each set of valves per boiler { per rule 9.8 Pressure to which they  
ONE 1 1/2" DIA. SIMPLEX " SUPR { as fitted 1.76 11.56 SQ INS.  
adjusted SUPR 464 LBS Are they fitted with easing gear YES In case of donkey boilers state whether steam from main boilers can enter  
donkey boiler YES Smallest distance between boilers or uptakes and bunkers 23' - 9" Height of boiler 21' - 0"  
Length and Length 11' 10" + 17' 5 1/2" Steam Drums:—Number in each boiler ONE Inside diameter 42"  
Thickness of plates 1 1/4" + 3/4" Range of Tensile Strength 70000 LBS MIN. Are drum shell plates welded  
If fusion welded, state name of welding firm COMBUSTION ENGINEERING CO Have all the requirements of the rules  
Class I vessels been complied with ABS + USCG. Description of riveting:—Cir. seams ✓ long. seams ✓  
Pitch of rivets ✓ Thickness of straps ✓ Percentage strength of  
Diameter of tube holes in long. seams ✓ Rivet ✓ Diameter of tube holes in drum 4 1/32" Pitch of tube holes 7"  
Percentage strength of shell in way of tubes ✓ Steam Drum Heads or Ends:—Range of tensile strength 65000 LBS MIN  
Thickness of plates 1 1/4" Radius or how stayed ELLIPSOIDAL Size of manhole or handhole 12" x 16" Water Drums:—Number  
each boiler ✓ Inside Diameter ✓ Thickness of plates ✓ Range of tensile strength ✓ Are drum shell plates  
ded or flanged ✓ If fusion welded, state name of welding firm ✓ Have all the requirements of the rules  
Class I vessels been complied with ✓ Description of riveting:—Cir. seams ✓ long. seam ✓  
Pitch of rivets ✓ Thickness of straps ✓ Percentage strength of  
Diameter of tube holes in long. seams ✓ Rivet ✓ Diameter of tube holes in drum ✓ Pitch of tube holes ✓  
Percentage strength of drum shell in way of tubes ✓ Water Drum Heads or Ends:—Range of Tensile strength ✓  
Thickness of plates ✓ Radius or how stayed ✓ Size of manhole or handhole ✓  
Adapters or Sections:—Number 14 Material SEAMLESS STEEL Thickness 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  
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 ✓  
Pitch of rivets ✓ Thickness of straps ✓ Percentage strength of long. joint ✓ Plate ✓ Rivet ✓  
Radius or how stayed ✓  
Down or End Plates:—Range of tensile strength ✓ Thickness ✓ Radius or how stayed ✓  
SUPERHEATER. Drums or Headers:—Number in each boiler TWO Inside Diameter 6 1/2" x 6 1/2" SQUARE.  
Thickness 3/4" Material SEAMLESS STEEL Range of tensile strength 55000 LBS MIN. Are drum shell plates welded  
flanged ✓ If fusion welded, state name of welding firm ✓ Have all the requirements of the rules  
Class I vessels been complied with ✓ Description of riveting:—Cir. seams ✓ long. seams ✓  
Pitch of rivets ✓ Thickness of straps ✓ Percentage strength of  
Diameter of tube holes in long. seams ✓ 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 ✓  
Radius or how stayed ✓ Size of manhole or handhole 3 3/8" x 4 1/4" Number, diameter, and thickness of tubes 145, 1 1/4" + 1.20"  
Tested by Hydraulic Pressure to 750 LBS Date of Test 28 MAY 1948 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 1 1/2" DIA. SIMPLEX. CONSOLIDATED. Area of each set  
valves 1.76 SQ. INS. Pressure to which they are adjusted 464 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.

Is the approved plan of boiler forwarded herewith YES  
Total No. of visits ✓

This boiler 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 the supervision of the American Bureau of Shipping & USCG. have now been hydrostatically tested & examined throughout & under steam. The boilers & machinery of this vessel are in good condition & eligible, in my opinion, to be classed with this Society with a record of LMC-MS-6-48 when the survey has been completed & the notation BS 6-48 2WTR-500LBS (SPT)

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

Committee's Minute NEW YORK JUL 14 1948

Assigned 2W.T.B. - 500 lbs (SPT)

002870-002875-0051

Engineer Surveyor to Lloyd's Register of Shipping.

Lloyd's Register Foundation



PORT

USCG 10803  
CECO 12098  
500 LBS  
HYDRO 750 LBS  
BETH S.P. + WORTH  
STEEL CO  
HEADS 65000  
SHELL 70000  
CG  
6-23-45  
1000 LBS 3-3-45  
ABS. PSN.  
3-16-45  
CECO-HB DIV N°W 6125-100

STARBOARD

USCG 10804  
CECO 12099  
500 LBS  
HYDRO 750 LBS  
BETHLEHEM STEEL  
CO. S.P.  
HEADS 65000  
SHELL 70000  
CG  
6-23-45  
1000 LBS 3-6-45  
ABS. PSN.  
3-16-45  
CECO HB DIV N° 6125-103



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