

# REPORT ON WATER TUBE BOILERS.

Slid No 34479  
No. 23261.

Received at London Office

Date of writing Report 8-3-46 19 When handed in at Local Office 9<sup>th</sup> MAR. 1946. Port of GREENOCK

No. in Reg. Bk. Survey held at GREENOCK Date, First Survey 26<sup>th</sup> OCT. 1945. Last Survey 14<sup>th</sup> FEBRUARY 1946. (Number of Visits 8.)

of the "GALEOMMA" Tons { Gross 5042 Net 2432

Built at Sunderland. By whom built J. L. THOMPSON 4<sup>th</sup> N° 643 When built 1946  
Engines made at By whom made GEO. CLARK & CO CON<sup>rs</sup> 1384 When made 1946  
Boilers made at GLASGOW & GREENOCK By whom made BABCOCK & WILCOX N° 1838A. 1838B. When made 1946  
Nominal Horse Power 710 Boilers only Owners N.V. Curacao'sche Scheepvaart Maatschappij Port belonging to Willemstad.

WATER TUBE BOILERS—MAIN, AUXILIARY, OR DONKEY.—Manufacturers of Steel Babcock & Wilcox supply. ✓  
Date of Approval of plan 16/6/45. 13/9/45. DETAILS of PADS & MTGS 7/9/45 ✓ Number and Description or Type of Boilers Two Water tube Working Pressure 220 lb Tested by Hydraulic Pressure to 380 Date of Test 25/4/46

No. of Certificate Can each boiler be worked separately? Yes. Total Heating Surface of Boilers 10640 sq ft. ✓  
Is forced draught fitted? Yes. Area of fire grate (coal) in each Boiler oil only.

No. and type of burners (oil) in each boiler 5 No. and description of safety valves on each boiler Two Imp. high lift Area of each set of valve 19.24 sq ft. Pressure to which they are adjusted 220 lb

Are they fitted with easing gear? Yes. 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 - Height of boiler - Width and Length

Steam Drums:—Number in each boiler One Inside diameter 3'-6" Thickness of plates Drum 9/8 tube plate 1/8 ✓  
Range of Tensile Strength 28/32 tons ✓ Are drum shell plates welded or flanged No Description of riveting:—

Cir. seams DR. ✓ long. seams DR. DBS ✓ Diameter of rivet holes in long. seams 29/32 ✓ Pitch of rivets 3.491" ✓  
Lap of plate or width of butt straps 9 5/8 outer ✓ Thickness of straps 9/16 ✓ Percentage strength of long. joint:—Plate 74.03 Rivet 96.77

Diameter of tube holes in drum 4.056" Pitch of tube holes 7" Percentage strength of shell in way of tubes 42.57 ✓  
Working pressure by rules 285 lb. Steam Drum Heads or Ends:—Range of tensile strength 24/30 tons Thickness of plates 7/8 ✓

Radius or how stayed 3'-0" ✓ Size of manhole or handhole 16" x 12" ✓ Working pressure by rules - Water Drums:—Number in each boiler - Are drum shell plates welded or flanged -

long. seams - Description of riveting:—Cir. seams - long. seams - Diameter of rivet holes in long. seams - Pitch of rivets - Lap of plates or width of butt straps - Thickness of straps -

Percentage strength of long. joint:—Plate - Rivet - Diameter of tube holes in drum - Pitch of tube holes -  
Percentage strength of drum shell in way of tubes - Working pressure by rules - Water Drum Heads or Ends:—Range of Tensile strength -

Thickness of plates - Radius or how stayed - Headers or Sections:—Number 29 each boiler ✓  
Size of manhole or handhole - Working pressure by rules - Tubes:—Diameter 1 3/4 ✓

Material Welded steel Thickness 11/32 ✓ Tested by Hydraulic Pressure to 380 lb ✓  
Thickness 9 3/16 ✓ Number 114. 910 ✓ Steam Dome or Collector:—Description of Joint to Shell ✓

Inside diameter - Thickness of shell plates - Range of tensile strength - Lap of plate or width of butt straps -

Description of longitudinal joint - Diameter of rivet holes - Pitch of rivets - Rivet -  
butt straps - Thickness of straps - Percentage strength of long. joint - Plate - Rivet

Working Pressure of shell by rules - Crown or End Plates:—Range of tensile strength - Working pressure by rules -  
Thickness - Radius or how stayed - Inside Diameter -

SUPERHEATER: Drums or Headers:—Number in each boiler - Are drum shell plates welded or flanged -

Thickness - Material - Range of tensile strength - Diameter of rivet holes in long. seams - Description of riveting:—Cir. seams - long. seams -

long. seams - Pitch of rivets - Lap of plates or width of butt straps - Thickness of straps -  
Percentage strength of long. joint:—Plate - Rivet - Diameter of tube holes in drum - Pitch of tube holes -

Percentage strength of drum shell in way of tubes - Working pressure by rules - Drum Heads or Ends:—  
Thickness - Range of tensile strength - Radius or how stayed - Size of manhole or handhole -

Working pressure by rules - Number, diameter, and thickness of tubes - Tested by Hydraulic Pressure to -  
Date of Test - Is a safety valve fitted to each section of the superheater which can be shut off from the boiler -

No. and description of Safety Valves - Area of each set of valves -  
Pressure to which they are adjusted - Is easing gear fitted -

Spare Gear. Has the spare gear required by the rules been supplied -  
The foregoing is a correct description, For JOHN B. KINCAID & CO. LIMITED. Manufacturer.

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

Dates of Survey } During progress of work in shops - - }  
while building } During erection on board vessel - - - }

Is this boiler a duplicate of a previous case No. If so, state vessel's name and report No. -  
GENERAL REMARKS (State quality of workmanship, opinions as to class, etc.) These boilers have been constructed under Special survey in accordance with the Rules & approved plans. The materials & workmanship are good. These boilers when completed & tested will be eligible to be fitted into a vessel classed in the Society's Register Books. They have now been dispatched to Sunderland to be fitted into J.L. Thompson N° 643

Survey Fee ... £ 17 17 0 When applied for, 19  
Travelling Expenses (if any) £ 8 19 0 When received, 19

Committee's Minute Assigned Reported for Completion  
GLASGOW 12 MAR 1946  
FRI 5 JUL 1946  
Lloyd's Register Foundation  
002830-002831-0070112

"Kincaid's Contract No. 320".

The two steam drums Glasgow Certificate No. C. 56495 have now been drilled for the mounting pads, the pads fitted and the drums tested by hydraulic pressure to 380 lbs. per square inch.

The tube holes were subsequently bored.

The Headers were assembled, tubes fitted and expanded and the headers tested by hydraulic pressure 380 lbs. per square inch. Nipple tubes fitted to mud drum and expanded in mud drum end only.

Boilers erected, return tubes, circulating nipple tubes, and down-comer tubes cut to length and fitted. These tubes were despatched loose, together with Return tubes, circulating nipples and down-comer tubes and also spare tubes:-  
8 - 4" inclined tubes, 14 - 1.13/16" x g.w.g. tubes and 2 - 4" x 6" w.g. return tubes to George Clark (1938), Ltd., Sunderland.

Babcock and Wilcox will supply the mountings.

*Charles J. Hunter*



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