

Rpt. 5c.

REPORT ON WATER TUBE BOILERS.

Sl. No. 34479
No. 23261.

Received at London Office

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

No. in Survey held at GREENOCK Date, First Survey 26th OCT. 1945. Last Survey 14th FEBRUARY 1946.
Reg. Bk. "GALEOMMA" (Number of Visits 8.) Gross 5042
on the Sunderland. Tons Net 2432

Built at By whom built J. L. THOMPSON 4th N° 643 When built 1946
Engines made at By whom made GEO. CLARK & CO. CON^t 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. Only
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 1/8
Range of Tensile Strength 28/32 tons Are drum shell plates welded or flanged No Description of riveting:—

Cir. seams D.R. 285 long. seams D.R. 285 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 Inside Diameter Thickness of plates Range of tensile strength Are drum shell plates

welded or flanged 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
Size of manhole or handhole Working pressure by rules Headers or Sections:—Number 29 each boiler

Material Seamless steel Thickness 11/32 Tested by Hydraulic Pressure to 380 lb. Tubes:—Diameter 1 3/4
Thickness 9 3/8 outer Number 114. 910 outer included tube 29 Pulling tube 38

Inside diameter Thickness of shell plates Range of tensile strength Lap of plate or width of
Description of longitudinal joint Diameter of rivet holes Pitch of rivets Rivet

butt straps Thickness of straps Percentage strength of long. joint Plate
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

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

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

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
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, &c.) 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 deferred for Completion

The foregoing is a correct description,
For JOHN B. KINCAID & CO. LIMITED. Manufacturer.
Director.

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

Charles J. Hunter
Engineer Surveyor to Lloyd's Register of Shipping.

GLASGOW 12 MAR 1946

FRI 5 JUL 1946
See F.E. Mackay Spt.

Lloyd's Register
Foundation

002830-002831-001012

"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