

RECEIVED

Rpt. 5c.

# REPORT ON WATER TUBE BOILERS.

Std. No. 34516  
Seri. No. 23316

24 MAY 1946

IN D.O.

Received at London Office 22 MAY 1946

Date of writing Report 15<sup>th</sup> MAY 1946. When handed in at Local Office 16<sup>th</sup> MAY 1946. Port of GREENOCK

No. in Survey held at GREENOCK Date, First Survey 26<sup>th</sup> OCTOBER '45 Last Survey 29/1/46 19  
 Reg. Bk. "GANESELLA" (Number of Visits 11.) Tons } Gross 5042  
 Net 2732  
 Built at Sunderland By whom built J.P. Thompson & Sons L<sup>td</sup> When built 1946  
 Engines made at By whom made G. Clark (1938) L<sup>td</sup> When made 1946  
 Boilers made at GLASGOW & GREENOCK By whom made BABCOCK & WILCOX No 6/1840 When made 1946  
 Nominal Horse Power 710 BOILERS ONLY Owners M.V. Lurecraiche Shepheard Maets. Port belonging to Willmottad.

## 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 PROS 17745 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 18/6/46

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 in. Pressure to which they are adjusted 220 lb sq in.

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 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 Bouter 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 42.8%

Working pressure by rules 285 lb Steam Drum Heads or Ends:—Range of tensile strength 26/30 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 ea. boiler

Material Thickness 1 1/32 Tested by Hydraulic Pressure to 380 lb Tubes:—Diameter 1 1/8"

Thickness 9.10 WG Number 114. 9/16 ea boiler Steam Dome or Collector:—Description of Joint to Shell

Inside diameter Thickness of shell plates Range of tensile strength

Description of longitudinal joint Diameter of rivet holes Pitch of rivets Lap of plate or width of butt straps

Thickness of straps Percentage strength of long. joint Plate Rivet Working Pressure of shell by rules

Thickness Radius or how stayed Working pressure by rules Crown or End Plates:—Range of tensile strength

Working pressure by rules

SUPERHEATER. Drums or Headers:—Number in each boiler Inside Diameter

Thickness Material 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 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 and on behalf of JOHN G. KINCAID & CO. LTD  
 Director Manufacturer.

Dates of Survey } During progress of work in shops - - - (1945) OCT. 26 - NOV. 7. 13. (1946) JAN. 14. FEB. 14-15.  
 while building } During erection on board vessel - - - 27 MAR. 13. 26 APRIL 11-29.

Is the approved plan of boiler forwarded herewith

Total No. of visits 12.

Is this boiler a duplicate of a previous case Yes If so, state vessel's name and report No. GREENOCK No 23288

## 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 Book. They have been dispatched to Messrs G. Clark & Co Sunderland for installation in their No 1385.

Survey Fee ... £ 17 : 17 : } When applied for, 10

Travelling Expenses (if any) £ : : } When received, 10

To GLASGOW 17-17  
 To SUNDERLAND 8-19

Committee's Minute GLASGOW 21 MAY 1946

Assigned deferred for completion

Engineer Surveyor to Lloyd's Register of Shipping.

FRI. 23 AUG 1946

See F.E. Mackay rpt.

Lloyd's Register Foundation

004364-004368-0200 12

"Kincaid's Contract No. 322".

The two steam drums Glasgow Certificate No. C.56875 have now been drilled for the moulding 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 Messrs. George Clark (1938), Ltd., Sunderland for installation in their No. 1385.

Babcock and Wilcox will supply the mountings.

*Charles J. Hunter*



© 2020

Lloyd's Register  
Foundation

0200 2/2