

REPORT ON WATER TUBE BOILERS.

No. 61661

Received at London Office

19 OCT 1939

Date of writing Report 14th Oct 1939 When handed in at Local Office 16. 10. 1939 Port of Glasgow

No. in Survey held at Renfrew Date, First Survey 22. 3. 39 Last Survey 28. 9. 1939

Reg. Bk. on the Boilers No. 6/1358. Number of Visits 32 Tons 32 Gross Net

Master By whom built By whom made When built

Engines made at By whom made When made 1939

Boilers made at Renfrew By whom made Babcock & Wilcox Ltd When made 1939

Registered Horse Power Owners Port belonging to

WATER TUBE BOILERS—MAIN, AUXILIARY, OR DONKEY.—Manufacturers of Steel Steel Co. of Scotland

(Letter for Record W.T. Stk Date of Approval of plan 30/3/39 & 19/4/39 Number and Description or Type Drums only

of Boilers 2 - Babcock & Wilcox Type Working Pressure 235 lb Tested by Hydraulic Pressure to 405 lb Date of Test 19. 6. 39

No. of Certificate Can each boiler be worked separately Total Heating Surface of Boilers 3576 sq ft

Is forced draught fitted Area of fire grate (coal) in each Boiler 64 sq ft * Total grate area of boilers in vessel including

Main and Auxiliary 134 sq ft No. and type of burners (oil) in each boiler No. and description of safety valves on

each boiler One - 2" Double Spring Improved High Lift Area of each valve 3.14 sq Pressure to which they are adjusted

Are they fitted with easing gear 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 21" 0" above Height of Boiler 11" 0" above Width and Length 21" 9" above

Steam Drums:—Number in each boiler one Inside diameter 3' 6" Material of plates Steel Thickness 7/16" & 1/16"

Range of Tensile Strength 28/32 ton Are drum shell plates welded or flanged No Description of riveting:—

Cir. seams D.R. Loh long. seams D.R. D.B.S. Diameter of rivet holes in long. seams 29/32" Pitch of Rivets 3.4801"

Lap of plates width of butt straps 9 5/8" & 9 1/8" Thickness of straps 7/16" in & out Percentage strength of long. joint:—Plate 73.96 Ricet 94.09

Diameter of tube holes in drum 4.047" Pitch of tube holes 7" Percentage strength of shell in way of tubes 42

If Drum has a flat side state method of staying Depth and thickness of girders at centre

(if fitted) Distance apart Number and pitch of stays in each Working pressure

by rules Steam Drum Heads or Ends:—Material Steel Thickness 7/8" Radius or how stayed 3' 0" Rad.

Size of Manhole or Handhole 15" x 11" Water Drums:—Number in each boiler Inside Diameter

Material of plates Thickness 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 Ricet Diameter of tube holes in drum Pitch of tube holes

Percentage strength of drum shell in way of tubes Water Drum Heads or Ends:—Material Thickness

Radius or how stayed Size of manhole or handhole Headers or Sections:—Number 12 per boiler

Material Steel Thickness 3/32" & 1/16" Tested by Hydraulic Pressure to 405 lb Material of Stays Working Pressure by Rules 235 lb Tubes:—Diameter 4" 0/16" & 1 1/16" 0/16"

Area at smallest part Area supported by each stay MUD DRUMS No PER BOILER one

Thickness Number Steam Dome or Collector:—Description of Joint to Shell one

Percentage strength of Joint Solid drawn SECTION Diameter 6" x 6" Thickness of shell plates 3/4" Material Steel

Description of longitudinal joint Diameter of Rivet Holes Pitch of Rivets Working Pressure of shell

by Rules 235 lb Crown or End Plates:—Material Thickness How stayed

SUPERHEATER. Type Babcock & Wilcox Date of Approval of Plan 30/3/39 Tested by Hydraulic Pressure to 405 lb

Date of Test 12. 9. 38 Drum only Is a safety valve fitted to each section of the superheater which can be shut off from the Boiler Yes

Diameter of Safety Valve 2" (Inlet) Improved High Lift Pressure to which each is adjusted Is easing gear fitted

Is a drain cock or valve fitted at lowest point of superheater Yes Number, diameter, and thickness of tubes 104 @ 1 1/2" 0/16" x 9 1/2" g. (per ft)

Spare Gear. Tubes 8 - 1 1/2" 0/16" 3/16" THICK Gaskets or joints:—Manhole 6 Handhole 110 - 3/8" Handhole plates 14 - 4" 1/16" 5/16" S/H.

2 - 4" 0/16" RETURN TUBES 10 - 3 1/2" 2 - 3 1/4" DIA. MUD DRUM ENDS.

The foregoing is a correct description, Babcock & Wilcox Ltd Manufacturer.

Eib 16/10/39 Yes

Dates of Survey while building During progress of work in shops 1939 Mar: 22. 30 Apr: 4. 5. 11. 17. 24 May: 1. 7. 13. 19. 20. 26 During erection on board vessel July: 3. 4. 10 Aug: 8. 14. 21 Sep: 4. 5. 12. 18. 20 Total No. of visits 32

GENERAL REMARKS (State quality of workmanship, opinions as to class, &c.) These boilers have been constructed in accordance with the Rules and approved plans. The drums, sections, superheater, boxes and mountings have been tested under hydraulic pressure & boiler has been assembled on the spot. Boiler has now been dismantled & shipped to Hong Kong, where it will be reassembled, tested under hydraulic pressure as a whole, & fitted in messon Hong Kong & Whampoa Dockyard & Yard No 819.

Survey Fee £15 : 17 : - When applied for, 19

Travelling Expenses (if any) £ When received, 19

MONTHLY ACCOUNT

Engineer Surveyor to Lloyd's Register of Shipping.

Committee's Minute GLASGOW 19 OCT 1939 IRH See Hkg. J.C. Apr. 8541

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