

REPORT ON WATER TUBE BOILERS.

No. 55309

Received at London Office 16 JAN 1935

Writing Report Dec 18 1934 When handed in at Local Office 8.1.1935 Port of Glasgow.

Survey held at Glasgow-Renfrew. Date, First Survey 9/3/34 Last Survey 24/12/1934

Boilers on the Boilers no 1289. (large type) Number of Visits 29

Built at Barron By whom built Vickers Armstrong Ltd. When built

Parts made at Renfrew By whom made Babcock Wilcox Ltd. When made 1934

Registered Horse Power Owners Port belonging to

WATER TUBE BOILERS—MAIN, AUXILIARY, OR DONKEY.—Manufacturers of Steel L. Colville & Raner S. Co

Date of Approval of plan 2/3/34 22/3/34, 24/4/34 Number and Description or Type

Boilers 4. Babcock Wilcox Type Working Pressure 450 lb Tested by Hydraulic Pressure to Date of Test

of Certificate NOT COMPLETED Can each boiler be worked separately. Total Heating Surface of Boilers 29860 sq ft

Forced draught fitted Yes Area of fire grate (coal) in each Boiler Total grate area of boilers in vessel including

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

boiler. Two high lift spring loaded. Area of each valve Pressure to which they are adjusted 450

they fitted with easing gear. In case of donkey boilers state whether steam from main boilers can enter the donkey boiler

Closest distance between boilers or uptakes and bunkers or woodwork. Height of Boiler Width and Length

in Drums: not made in Glasgow District Number in each boiler Inside diameter 5'-6 Material of plates mild steel Thickness 1 7/8

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

seams No lap long, seams Sited, sprung Diameter of rivet holes in long, seams Pitch of Rivets

of plate or width of butt straps Thickness of straps Percentage strength of long, joint:—Plate Rivet

Diameter of tube holes in drum 4 1/8 Pitch of tube holes 7/4 Percentage strength of shell in way of tubes 43.97

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

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

rules Steam Drum Heads or Ends:—Material Steel Thickness 1 7/16 Radius or how stayed 3'0"

of Manhole or Handhole 15" x 11" Water Drums:—Number in each boiler 1 Inside Diameter 6' x 6' 5 1/2"

Material of plates Steel S.D. Thickness 3/4" nominal Range of tensile strength 26/30 Ton Are drum shell plates welded

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 Water Drum Heads or Ends:—Material Thickness

Radius or how stayed Size of manhole or handhole Headers or Sections:—Number 360. Total

Material Steel S.D. Thickness 7/16" nominal Tested by Hydraulic Pressure to Material of Stays not fitted here

Area at smallest part Area supported by each stay Working Pressure by Rules 450 lb Tubes:—Diameter

Thickness 7 3/8 Number 1355 Steam Dome or Collector:—Description of Joint to Shell

Percentage strength of Joint Diameter Thickness of shell plates Material

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

Rules Crown or End Plates:—Material Thickness How stayed

SUPERHEATER. Type B.W. Interdeck Date of Approval of Plan 18/6/34. Tested by Hydraulic Pressure to 725 lb.

Date of Test Is a safety valve fitted to each section of the superheater which can be shut off from the Boiler

Diameter of Safety Valve Pressure to which each is adjusted 400 lb Is easing gear fitted

Drain cock or valve fitted at lowest point of superheater Number, diameter, and thickness of tubes

are Gear. Tubes Gaskets or joints:—Manhole Handhole Handhole plates

The foregoing is a correct description,

Babcock & Wilcox, Ltd Manufacturer.

Dates Survey During progress of work in shops 1934 Mar. 9. 19. 26 Apr. 3. 19. 23 27 May Is the approved plan of boiler forwarded herewith Yes

During erection on board vessel 2. 4. 8. 14. 15 June 4. 7. 14 Aug 8. 23. 24. 29 Total No. of visits 29

1934 Sep. 6. 18 Oct. 4. 16. 25 Nov. 1. 5. 23 Dec. 13. 24

GENERAL REMARKS (State quality of workmanship, opinions as to class, &c.) These boiler parts have been built under Special Survey, to approved plans in accordance with the Society's Rules. They have been forwarded to Mr Vickers Armstrong for completion of boilers and fittings in their no 697. The materials and workmanship are good.

Survey Fee NB £ 135-18-0 to L.L. Office 6.7.1934 to L.L. Office 6.7.1934

Travelling Expenses (if any) £ When applied for, 191 When received, 2/87 191

Signature: J. H. Sutherland
Engineer Surveyor to Lloyd's Register of Shipping
FRI. 9 AUG 1935
TUE. 13 AUG 1935

Committee's Minute GLASGOW 15 JAN 1935

Assigned TRANSMIT TO LONDON