

# REPORT ON WATER TUBE BOILERS.

No. 55309<sup>A</sup>

16 JAN 1935

Received at London Office

Writing Report Dec 18 1934 When handed in at Local Office 8.1 1935 Port of Glasgow

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

on the Boiler no 1289 (Smaller type) Number of Visits 29 Tons } Gross

Built at Barrow. By whom built Vickers Armstrongs 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 B Colville & Co Ltd

Date of Approval of plan 2/3/34, 22/3/34, 24/4/34, 1/6/34 Number and Description or Type 2 Babcock Wilcox type

Working Pressure 450 lb Tested by Hydraulic Pressure to Date of Test 24/12/34

of Certificate NOT COMPLETED Can each boiler be worked separately. Total Heating Surface of Boilers 7170 sq ft

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

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

Area of each valve Pressure to which they are adjusted 4.50

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

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

in Drums:—Number in each boiler one Inside diameter 3'-2" Material of plates steel Thickness 1 7/8"

Age of Tensile Strength 28/32 Are drum shell plates welded or flanged no Description of riveting:—

seams lap long. seams Solid Japung 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 1/2" Percentage strength of shell in way of tubes

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" Material of plates Steel S.D. Thickness 3/4" nominal

Water Drums:—Number in each boiler 1 Inside Diameter 6" x 6" Sq

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

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 120

Material Steel S.D. Thickness 7/16" nominal Tested by Hydraulic Pressure to 725

Material of Stays Working Pressure by Rules 450 lb Tubes:—Diameter 1 1/2"

Thickness 7+9 1/2" Number 700 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 Interdeck Date of Approval of Plan 11/6/34 Tested by Hydraulic Pressure to 725 lbs

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 Is casing gear fitted

Is a 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 } During progress of } work in shops - - } Is the approved plan of boiler forwarded herewith yes

Survey } During erection on } board vessel - - - } See Accompanying Report No 55309 Total No. of visits 29

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. Materials and workmanship are good. They have been forwarded to Mr Vickers-Armstrongs for completion of boilers and fitting in their No 694

Survey Fee ... £ : : } When applied for, 191

Travelling Expenses (if any) £ : : } When received, 101

H. Sutherst

Engineer, Surveyor to Lloyd's Register of Shipping. FRI, 9 AUG 1935

Committee's Minute GLASGOW 15 JAN 1935

Assigned TRANSMIT TO LONDON

Lloyd's Register of Shipping Foundation stamp and date: See Surv. No 2576

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