

REPORT ON WATER TUBE BOILERS.

No. 58009 ^A

Received at London Office

10 FEB 1937

Date of writing Report 28/11 1937 When handed in at Local Office 6.2. 1937 Port of Glasgow

No. in Survey held at Renfrew. Date, First Survey 28.8.36 Last Survey 21-1-1937

Reg. Bk. on the Boilers 6/1314 (large type) Number of Visits 19 } Gross
 Master Built at Barrow By whom built Vickers Armstrongs Ltd 723 When built 1937 } Net

Engines made at _____ By whom made _____ When made _____

Boilers made at Part Renfrew. By whom made Babcock & Wilcox Ltd When made 1937.

Registered Horse Power _____ Owners _____ Port belonging to _____

WATER TUBE BOILERS—MAIN, AUXILIARY, OR, DONKEY.—Manufacturers of Steel D Colville & Son & James Steel Co

(Letter for Record _____) Date of Approval of plan 15/6/36, 22/1/36, 29/8/36, 13/7/36 Number and Description or Type of Boilers 4 Babcock & Wilcox Type. Working Pressure 450 lb. Tested by Hydraulic Pressure to 725 lb. Date of Test _____

No. of Certificate _____ Can each boiler be worked separately _____ Total Heating Surface of Boilers 29860 sq. ft.

Is forced draught fitted _____ Area of fire grate (coal) in each Boiler _____ Total grate area of boilers in vessel including Main and Auxiliary _____ No. and type of burners (oil) in each boiler _____ No. and description of safety valves on each boiler _____ Area of each valve _____ 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 _____ Height of Boiler _____ Width and Length _____

Steam Drums:—Number in each boiler Not made in Glasgow district. 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 plate 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 shell in way of tubes _____

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 Made from 17/16" Radius or how stayed 3'-0"

Size of Manhole or Handhole 15" x 11" ✓ Material S.D. Steel Thickness 3/4" nominal Range of tensile strength 28/32 Ton 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 _____

Water Drum Heads or Ends:—Material _____ Thickness _____

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

Material S.D. Steel Thickness 7/16" nominal Tested by Hydraulic Pressure to 725 lb. Material of Stays _____ Tubes:—Diameter Not fitted here.

Area at smallest part _____ Area supported by each stay _____ Working Pressure by Rules _____

Thickness _____ Number _____

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 by Rules _____

Crown or End Plates:—Material _____ Thickness _____ How stayed _____

SUPERHEATER. Type Babcock & Wilcox Interdeck Date of Approval of Plan _____ 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 _____ Is easing gear fitted _____

Is a drain cock or valve fitted at lowest point of superheater _____ Number, diameter, and thickness of tubes _____

Spare Gear. Tubes _____ Gaskets or joints:—Manhole _____ Handhole _____ Handhole plates _____

The foregoing is a correct description,

Babcock & Wilcox, Ltd Manufacturer.

Dates of Survey } During progress of work in shops - - } See Accompanying Report Is the approved plan of boiler forwarded herewith Yes.

while building } During erection on board vessel - - - }

Total No. of visits 19

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 despatched to Mr Vickers - Armstrongs for completion and fitting in their No 723.

28/12/37
 Survey Fee £67/19/0 to Glasgow } When applied for, _____ 19
 Travelling Expenses £64/19/0 to Barrow. } When received, _____ 19

MONTHLY ACCOUNT

H Sutherland
Engineer Surveyor to Lloyd's Register of Shipping.

Committee's Minute GLASGOW 9 FEB 1937
Assigned TRANSMIT TO LONDON

