

REPORT ON WATER TUBE BOILERS.

No. 49777

Received at London Office

30 OCT 1929

Date of writing Report 191 When handed in at Local Office 26 10 1929 Port of Glasgow

No. in Survey held at Renfrew Date, First Survey 5 8 29 Last Survey 23rd Oct 1929

Reg. Bk. 21848 on the BOILERS No. 6/1254 H.K. Tur. K. Turbine Prince Charles Number of Visits 16 } Gross Tons }
 Master Built at Hoboken By whom built Soc. An. John Cockerill When built 1930-10 }
 Engines made at Seraing By whom made Soc. An. John Cockerill When made 1930 }
 Boilers made at Renfrew By whom made Messrs Babcock & Wilcox Ltd When made 1929 }
 Registered Horse Power Owners Belgian Government Port belonging to Offhand

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

(Letter for Record S) Date of Approval of plan 4-7-29 Number and Description or Type of Boilers 6. Babcock & Wilcox Type Working Pressure 370 lbs. Tested by Hydraulic Pressure to 21,300 sq ft B.L.S. Date of Test 5/11/29

No. of Certificate Can each boiler be worked separately. Total Heating Surface of Boilers 5940 " " 5/11/29

Is forced draught fitted Yes Area of fire grate (coal) in each Boiler 104.75 sq ft 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

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 One Inside diameter 3'-0" Material of plates Steel Thickness 1/16 T.P. 1 5/16"

Range of Tensile Strength 28-32 tons Are drum shell plates welded or flanged no Description of riveting:—

Cir. seams D.R. Lap long. seams D.R.D.B.S. Diameter of rivet holes in long. seams 3/32 Pitch of Rivets 3-7"

Lap of plate or width of butt straps 10 3/8" Thickness of straps 1/16" Percentage strength of long. joint:—Plate 73.8 Rivet 85.5

Diameter of tube holes in drum 4 3/64" Pitch of tube holes 7 1/4" Percentage strength of shell in way of tubes 84.3

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 1 3/16" Radius or how stayed 3'-0"

Size of Manhole or Handhole 15"x11" MUD Water Drums:—Number in each boiler one Inside Diameter SQUARE 6"x6"

Material of plates Steel Thickness 3/4" Range of tensile strength 24-28 tons Are drum shell plates welded or flanged Solid drawn 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 4 3/64" Pitch of tube holes 7 1/4"

Percentage strength of drum shell in way of tubes 42.2 MUD Water Drum Heads or Ends:—Material Steel Thickness 3/4"

Radius or how stayed Flat Size of manhole or handhole Headers or Sections:—Number 24 Pairs for B.L.R.

Material Steel Thickness 1/2" Tested by Hydraulic Pressure to 605 Material of Stays

Area at smallest part Area supported by each stay Working Pressure by Rules 506 Tubes:—Diameter 4" x 1 13/16"

Thickness 4 { 1 L.S.G. 1 13/16 { 7 L.S.G. Number 72 @ 4" 750 @ 1 13/16" 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 W Date of Approval of Plan 4-7-29 Tested by Hydraulic Pressure to 605

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 yes Number, diameter, and thickness of tubes 110 @ 1 1/2" x 8 L.S.G.

Spare Gear. Tubes Gaskets or joints:—Manhole Handhole 66 " 5/16" Handhole plates 2" 5/16"

The foregoing is a correct description,

Babcock & Wilcox, Ltd. Manufacturer.

Dates of Survey } During progress of work in shops 1929 Aug 5, 13, 16, 21, 26 Sep 3, 9, 10, 11, 16, 18, 20 Is the approved plan of boiler forwarded herewith NO.
 while building } During erection on board vessel 23, 25 Oct 7, 29 Total No. of visits 16

GENERAL REMARKS (State quality of workmanship, opinions as to class, &c.) The drum ends, mud drums, headers, and superheater boxes, have been built under survey in accordance with the Rules and approved plans.

The materials and workmanship are good

These parts are to the order Messrs Societe Anonyme John Cockerill and intended for Belgian Mail Steamers for auction on board.

Survey Fee ... £41-0-0: When applied for, 191

Travelling Expenses (if any) £ : : When received, 191

MONTHLY ACCOUNT

G. E. Murdoch
Engineer Surveyor to Lloyd's Register of Shipping.

Committee's Minute GLASGOW 29 OCT 1929

Assigned TRANSMIT TO LONDON

FRI. 21 NOV 1929
Lloyd's Register Foundation
004556+004563-0091