

REPORT ON WATER TUBE BOILERS.

Received at London Office

9 JUL 1930

Date of writing Report 191 When handed in at Local Office 12.6.1930 Port of Glasgow
No. in Survey held at Renfrew Date, First Survey 25.12.29 Last Survey 12th June 1930
Reg. Bk. on the BOILER No. 6/1259 Number of Visits 30 Gross 12043 Net 6857
Master Built at By whom built When built
Engines made at By whom made When made
Boilers made at Renfrew By whom made Messrs Babcock & Wilcox Ltd When made 1930
Registered Horse Power Owners Port belonging to

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

(Letter for Record S.) Date of Approval of plan 6-3-30, 4-3-30, 21-1-30 Number and Description or Type of Boilers Two Babcock & Wilcox Working Pressure 200 lb. Tested by Hydraulic Pressure to 350 lb. Date of Test

No. of Certificate Can each boiler be worked separately yes Total Heating Surface of Boilers 4068 sq ft
Is forced draught fitted yes 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 3- Todd Pressure Burners

each boiler 1-Pair 2" J.H.L. Cochburns Area of each valve 6.28 sq inches No. and description of safety valves on Are they fitted with easing gear In case of donkey boilers state whether steam from main boilers can enter the donkey boiler No

Smallest distance between boilers or uptakes and bunkers or woodwork Height of Boiler 15'0" Width and Length 10'6" x 14'6"
Steam Drums:—Number in each boiler One Inside diameter 3'-5 1/2" Material of plates Steel Thickness 1 3/32" T.P. 1 7/16"

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 27/32" Pitch of Rivets 3.313"
Lap of plate or width of butt straps Mean 9" Thickness of straps 17/32" Percentage strength of long. joint:—Plate 71.88 Rivet 94

Diameter of tube holes in drum 4 3/64" Pitch of tube holes 7" Percentage strength of shell in way of tubes 42.2
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

Shell Steam Drum Heads or Ends:—Material Steel Thickness 15/16" Radius or how stayed 3'-0"
Size of Manhole or Handhole 16" x 12" Material of plates S.D. steel Thickness 3/4" Range of tensile strength 24-28 tons Are drum shell plates welded or flanged Solid chain 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"
Percentage strength of drum shell in way of tubes 42.2 Water Drum Heads or Ends:—Material Steel Thickness 3/4"
Radius or how stayed Flat Size of manhole or handhole Headers or Sections:—Number 14 Pairs per Bh.
Material Steel Thickness 1 1/32" Tested by Hydraulic Pressure to 400 lb. Material of Stays

Area at smallest part Area supported by each stay Working Pressure by Rules 207 lb. Tubes:—Diameter 4" x 1 1/16"
Thickness 4 1/16" 1 3/16" 9.2.36 10.4.56 Number 4-42 1/2 1 1/2-430" 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 Date of Approval of Plan Tested by Hydraulic Pressure to
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 7" 4" 1 1/16" 1 3/16" Gaskets or joints:—Manhole 6 Handhole 100 Handhole plates 14

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

Dates of Survey During progress of work in shops 1929 Dec 26-31 (1930) Jan 28-27 Feb 12-27 Mar 10-11 Is the approved plan of boiler forwarded herewith yes

while building During erection on board vessel 17.28.29 Apr 1.4.7.8.9.10.14.22.28.30 May 5-7 Total No. of visits 30
8.12.15.16.21.24 June 12.

GENERAL REMARKS (State quality of workmanship, opinions as to class, &c.)

These steam drums, Sections, and mud drums have been built under survey in accordance with the Rules and approved plans. The materials and workmanship are good. They are to the order Messrs Palmers S. B. & I. Co. Ltd and intended for their No. 1000

3/5 Survey Fee ... £ 15.12.0 When applied for,
Travelling Expenses (if any) £ : : When received, 191

Committee's Minute GLASGOW 8 - JUL 1930 Assigned TRANSMIT TO LONDON

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

TUE. 25 NOV 1930 See No. 86440

Lloyd's Register Foundation 003298-003306-0245