

REPORT ON BOILERS.

No. 38663

WED. APR. 16/1919

Received at London Office

Date of writing Report 29th March 1919 When handed in at Local Office

191 Port of Glasgow

No. in Survey held at Renfrew

Date, First Survey 10-4-18

Last Survey 31-10-1919

Reg. Book.

on the Three Babcock & Wilcox Boilers, fitted on 1st War Rigours now Andalusian

(Number of Visits 21)

Gross Tons

Net Tons

Master Built at By whom built When built

Engines made at By whom made When made

Boilers made at Renfrew By whom made Babcock & Wilcox (No 403) When made 1919

Registered Horse Power Owners Port belonging to

MULTITUBULAR BOILERS—MAIN, ~~AUXILIARY OR DONKEY~~—Manufacturers of Steel Colville & Sons & Steel Co. of Scotland

Letter for record S. Total Heating Surface of Boilers 96365 Is forced draft fitted Yes (Lead Stackholder) No. and Description of

Boilers Three Babcock & Wilcox Working Pressure 200 Tested by hydraulic pressure to Sections 400 Date of test

No. of Certificate Can each boiler be worked separately Area of fire grate in each boiler 85 1/4 No. and Description of

safety valves to 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 Inside diam. of boilers 4' 0" Length 15' 1 1/4"

Material of shell plates Steel Thickness 9/16 + 1/16 Range of tensile strength 28-32 Are the shell plates welded or flanged

Descrip. of riveting: cir. seams D.R. Lap long. seams T.R.S. Butt Diameter of rivet holes in long. seams 29/32 Pitch of rivets 3.537

Lap of plates or width of butt straps 7 1/4 Per centages of strength of longitudinal joint rivets 76.7 Working pressure of shell by

rules 238 Size of manhole in shell 15" x 11" Size of compensating ring 7 3/8 x 28 3/4 x 22 1/4 No. and Description of Furnaces in each

boiler Material Outside diameter Length of plain part top Thickness of plates crown

Description of longitudinal joint No. of strengthening rings Working pressure of furnace by the rules Combustion chamber

plates: Material Thickness: Sides Back Top Bottom Pitch of stays to ditto: Sides Back

Top If stays are fitted with nuts or riveted heads Working pressure by rules Material of stays Diameter at

smallest part Area supported by each stay Working pressure by rules End plates in steam space: Material Steel Thickness 13/16

Pitch of stays How are stays secured Working pressure by rules 240 Material of stays Diameter at smallest part

Area supported by each stay Working pressure by rules Material of Front plates at bottom Thickness Material of

Lower back plate Steel Thickness 17/32 Greatest pitch of stays Working pressure of plate by rules Diameter of tubes 13 1/16 + 15/16

Pitch of tubes 2 3/8 - 2 5/8 Material of tube plates Steel Thickness: Front 1 1/16 Back Mean pitch of stays Pitch across wide

water spaces Working pressures by rules Girders to Chamber tops: Material Depth and thickness of

girder at centre Length as per rule Distance apart Number and pitch of Stays in each

Working pressure by rules Superheater or Steam chest: how connected to boiler Can the superheater be shut off and the boiler worked

separately Diameter Length Thickness of shell plates 3/4 Material Steel Description of longitudinal joint Diam. of rivet

holes Pitch of rivets Working pressure of shell by rules Diameter of flue Material of flue plates Thickness

If stiffened with rings Distance between rings Working pressure by rules End plates: Thickness How stayed

Working pressure of end plates Area of safety valves to superheater Are they fitted with easing gear

The foregoing is a correct description,

Babcock & Wilcox Limited

Manufacturer.

Survey request form

2167 to Glasgow Report No 38228

Dates of Survey During progress of 1918 Apr. 10. 15. May. 6. 15. 22. 30. June 8. 10. 12. 27. July 5. 27. Is the approved plan of boiler forwarded herewith in London office

while building During erection on board vessel Aug 2. 12. 26. Sept. 12. 13. 26. Oct 2. 5. 31. Total No. of visits 21.

GENERAL REMARKS (State quality of workmanship, opinions as to class, &c.) The boilers have been built under special survey in accordance with the approved plans & the Rules of the Society. The workmanship & materials are of good quality throughout. The sections, steam, & mud drums have been tested as above, the boilers have been dispatched in sections to meet the Furness S.B. Co. Port Clarence & will be re-tested on board the vessel.

Survey Fee ... £ 36 : 7 : 4 When applied for, 27/3/1920

Travelling Expenses (if any) £ 36 : 7 : 4 When received, 11/5/1920

Engineer Surveyor to Lloyd's Register of British and Foreign Shipping.

Committee's Minute

GLASGOW 15 APR 1919

Assigned

TRANSMIT TO LONDON

004382-004386-0203

Lloyd's Register Foundation