

REPORT ON BOILERS.

No. 11464.

Port of *Southampton*Received at London *22 FEB 1923*

No. in Survey held at *Cowes*. Date, first Survey *"* Last Survey *19*
Reg. Book. *"* (Number of Visits *"*)
on the *PADDLE FERRY STEAMER* Tons { Gross *608.79*
Net *310.93*
Master Built at *Cowes*. By whom built *J. S. White & Co. Ltd.* When built *1923*
Engines made at *Cowes*. By whom made *J. S. White & Co. Ltd.* when made *1923*.
Boilers made at *Cowes*. By whom made *J. S. White & Co. Ltd.* when made *1923*.
Non Registered Horse Power *146* Owners *London County Council*. Port belonging to *London*.

MULTITUBULAR BOILERS—MAIN, AUXILIARY OR DONKEY. Manufacturers of Steel *Dunlop & Co., Glasgow*.(Letter for record *S*) Total Heating Surface of Boilers *2620* Is forced draft fitted *no*. No. and Description ofBoilers *2 Single-ended Navy type* Working Pressure *40 lbs.* Tested by hydraulic pressure to *80 lbs.* Date of test *24.11.21*.No. of Certificate *370*. Can each boiler be worked separately *yes*. Area of fire grate in each boiler *48.5* No. and Description ofsafety valves to each boiler *2 Spring-loaded*. Area of each valve *15.9* Pressure to which they are adjusted *40 lbs.*Are they fitted with easing gear *yes*. 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 *15"* Mean dia. of boilers *9'7"* Length *17-2 5/8"*Material of shell plates *S*. Thickness *3/8"* Range of tensile strength *28-32 tons* Are the shell plates welded or flanged *✓*Descrip. of riveting: cir. seams *ends single* long. seams *BR lap*. Diameter of rivet holes in long. seams *3/4"* Pitch of rivets *2 1/2"*Lap of plates or width of butt straps *3 3/4"* Per centages of strength of longitudinal joint rivets *77.2* Working pressure of shell byrules *58.7* Size of manhole in shell *16" x 12"* Size of compensating ring *2'3" x 1'11" x 1/2"* No. and Description of Furnaces in eachboiler *2 plain with* Material *S*. Outside diameter *3'10"* Length of plain part *For 3'5"* Thickness of plates crown *7/16"*Description of longitudinal joint *Welded*. No. of strengthening rings *one*. Working pressure of furnace by the rules *43.5* Combustion chamberplates: Material *S*. Thickness: Sides *3/8"* Back *9/16"* Top *3/8"* Bottom *3/8"* Pitch of stays to ditto: Sides *10 x 9 1/2* Back *✓*T BARS *10 x 16* If stays are fitted with nuts or riveted heads *yes* Working pressure by rules *45.5 lbs* Material of stays *S*. Diameter atsmallest part *1 1/8"* Area supported by each stay *50 lbs* Working pressure by rules *5.44* End plates in steam space: Material *S*. Thickness *Back 9/16"*Pitch of stays *21 x 15 1/8"* Are stays secured *N.Y.S* Working pressure by rules *44.7 lbs* Material of stays *S*. Diameter at smallest part *1.48"*Area supported by each stay *315* Working pressure by rules *50.7 lbs* Material of Front plates at bottom *✓* Thickness *✓* Material ofLower back plate *✓* Thickness *✓* Greatest pitch of stays *✓* Working pressure of plate by rules *✓* Diameter of tubes *3" Ext.*Pitch of tubes *4 1/4 x 4 3/16"* Material of tube plates *S* Thickness: Front *9/16"* Back *9/16"* Mean pitch of stays *2 3/4 x 12 9/16"* Pitch across widewater spaces *14" x 8 1/2"* Working pressures by rules *56 lbs.* Girders to Chamber tops: Material *S*. Depth and thickness ofgirder at centre *6 x 4 x 1/2" T bar* Length as per rule *✓* Distance apart *10"* Number and pitch of Stays in each *6 @ 16"*Working pressure by rules *51.5 lbs* Superheater or Steam chest: how connected to boiler *✓* Can the superheater be shut off and the boiler workedseparately *✓* Diameter *✓* Length *✓* Thickness of shell plates *✓* Material *✓* Description of longitudinal joint *✓* Diam. of rivetholes *✓* 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 *✓*

VERTICAL DONKEY BOILER—No. Description Manufacturers of steel

Made at By whom made When made Where fixed

Working pressure tested by hydraulic pressure to No. of Certificate Fire grate area Description of safety valves

No. of safety valves Area of each Pressure to which they are adjusted If fitted with easing gear If steam from main boilers can

enter the donkey boiler Dia. of donkey boiler Length Material of shell plates Thickness Range of tensile

strength Descrip. of riveting long. seams Dia. of rivet holes Whether punched or drilled Pitch of rivets

Lap of plating Per centage of strength of joint Rivets Working pressure of shell by rules Thickness of shell crown plates

Radius of do. No. of Stays to do. Dia. of stays Diameter of furnace Top Bottom Length of furnace

Thickness of furnace plates Description of joint Working pressure of furnace by rules Thickness of furnace crown

plates Stayed by Diameter of uptake Thickness of uptake plates Thickness of water tubes

For J. SAMUEL WHITE & COMPANY, Ltd.
The foregoing is a correct description,*J. Samuel White* Managing Director. Manufacturer.

Dates of Survey while building { During progress of work in shops - - -
During erection on board vessel - - -
Total No. of visits

Is the approved plan of main boiler forwarded herewith

" " " donkey " "

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Lloyd's Register

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

These two boilers have been constructed and tested in accordance with the requirements of the Rules and the approved plan. They have been satisfactorily fitted on board and tried under full working conditions.

Certificate (if required) to be sent to
(The Surveyors are requested not to write on or below the space for Committee's Minute.)

The amount of Entry Fee...	£	:	:	When applied for,
Special	£	:	:	19
Donkey Boiler Fee ...	£	:	:	When received,
Travelling Expenses (if any) £	:	:	:	19

Committee's Minute

Assigned

TUE. 27 FEB. 1923

L. H. F. Young
Engineer Surveyor to Lloyd's Register of British and Foreign Shipping.



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Lloyd's Register
Foundation

Rpt. 13.

RE

Date of writing

No. in
Reg. Book.

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Owners

Electric L

System of

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Section