

REPORT ON BOILERS.

No. 15221

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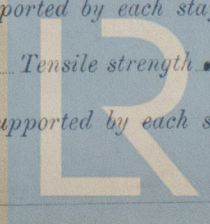
Date of writing Report *25th Aug 1927* When handed in at Local Office *29/8 1927* Port of *Antwerp.*No. in *Sup^t* Survey held at *Antwerp.* Date, First Survey *31st May.* Last Survey *24th August 1927.*Reg. Book. *70384* in the *S/S "OLYVIGOR" & "OLYVIGORE."* (Number of Visits *2*) Gross *3254.* Net *2025.*

Master ☒ Built at *Baltimore* By whom built *Baltimore D.D.S.B. Co.* Yard No. ☒ When built *1917-2.*

Engines made at *Glasgow.* By whom made *London & Glasgow E. & S.B. Co. Ltd.* Engine No. *363.* When made *1913.*

Boilers made at *Bremen* By whom made *A. G. Weser.* Boiler No. ☒ When made *about 1920.*

Nominal Horse Power ☒ Owners *The European & S.S. Co. Ltd.* Port belonging to *London.*

MULTITUBULAR BOILERS—MAIN, ~~AUXILIARY, OR DONKEY.~~Manufacturers of Steel ☒ (Letter for Record ☒)Total Heating Surface of Boilers *4940 sq ft* Is forced draught fitted *yes.* Coal or Oil fired *Oil*No. and Description of Boilers *Two multitubular Scotch type. 2 S.B.* Working Pressure *160 lbs.*Tested by hydraulic pressure to *250 lbs.* Date of test *25.7.27.* No. of Certificate ☒ Can each boiler be worked separately *yes.*Area of Firegrate in each Boiler *53.75 sq ft* No. and Description of safety valves to each boiler *Two spring loaded.*Area of each set of valves per boiler { per Rule *21 sq ft* as fitted *24.4 sq ft* Pressure to which they are adjusted *165 lbs.* Are they fitted with easing gear *yes.*In case of donkey boilers, state whether steam from main boilers can enter the donkey boiler *no donkey boiler*Smallest distance between boilers or uptakes and bunkers *woodwork 18"* Is oil fuel carried in the double bottom under boilers *yes.*Smallest distance between shell of boiler and tank top plating *12"* Is the bottom of the boiler insulated *yes.*Largest internal dia. of boilers *14'-6"* Length *11'-11 1/8"* Shell plates: Material ☒ Tensile strength *46,000 lbs.*Thickness *1 1/16" F.* Are the shell plates welded or flanged *no.* Description of riveting: circ. seams { end *l.R. lap* inter. *1*long. seams *Q.R.D.B.S.* Diameter of rivet holes in { circ. seams *1 5/16"* long. seams *1 5/16"* Pitch of rivets { *4 1/8"* *17 1/2"*Percentage of strength of circ. end seams { plate *68.25%* rivets *46.6%* Percentage of strength of circ. intermediate seam { plate *92.5%* rivets *118%*Percentage of strength of longitudinal joint { plate *92.5%* rivets *118%* combined *192.5%* Working pressure of shell by Rules *191 lbs.*Thickness of butt straps { outer *3/8"* inner *3/8"* No. and Description of Furnaces in each Boiler *Three corrugated. 3 cf.*Material ☒ Tensile strength ☒ Smallest outside diameter *3'-4 1/2"*Length of plain part { top *3'* bottom *3'* Thickness of plates { crown *9/16"* bottom *9/16"* Description of longitudinal joint *welded.*Dimensions of stiffening rings on furnace or c.e. bottom ☒ Working pressure of furnace by Rules *183 lbs.*End plates in steam space: Material ☒ Tensile strength ☒ Thickness *1.075"* Pitch of stays *17 1/8" x 16 1/2"*How are stays secured *D. nuts & washers.* Working pressure by Rules *208 lbs.*Tube plates: Material { front *3'* back *3'* Tensile strength { *3'* Thickness { *1 1/16"* *7/8"*Mean pitch of stay tubes in nests *8 5/8" x 8 5/8"* Pitch across wide water spaces *14 3/16"* Working pressure { front *255 lbs.* back *205 lbs.*Girders to combustion chamber tops: Material ☒ Tensile strength ☒ Depth and thickness of girderat centre *9 1/16" x 1 1/4"* Length as per Rule *2'-7 1/2"* Distance apart *8 1/4"* No. and pitch of staysin each *3 @ 7 1/2"* Working pressure by Rules *222.5 lbs.* Combustion chamber plates: Material ☒Tensile strength ☒ Thickness: Sides *1/16"* Back *.65"* Top *1/16"* Bottom *.875"*Pitch of stays to ditto: Sides *8 1/16" x 7 5/16"* Back *7 3/8" x 7 1/2"* Top *8 1/4" x 7 1/2"* Are stays fitted with nuts or riveted over *nuts.*Working pressure by Rules *183 lbs.* Front plate at bottom: Material ☒ Tensile strength ☒Thickness *1 1/16"* Lower back plate: Material ☒ Tensile strength ☒ Thickness *1 3/16"* *1 3/32"*Pitch of stays at wide water space *26"* Are stays fitted with nuts or riveted over *nuts, washers & doublers.*Working Pressure *202 lbs.* Main stays: Material ☒ Tensile strength ☒Diameter { At body of stay, *2 15/16"* Over threads *3 1/16"* No. of threads per inch *8.* Area supported by each stay *410.0"*Working pressure by Rules *180 lbs.* Screw stays: Material ☒ Tensile strength ☒Diameter { At turned off part, *1 3/8"* Over threads *1 1/2"* No. of threads per inch *10* Area supported by each stay *55.30"*

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Working pressure by Rules *183 lb.* Are the stays drilled at the outer ends *No.* Margin stays: Diameter *2'* *2 1/8"*
 No. of threads per inch *10* Area supported by each stay *111.2 sq"* Working pressure by Rules *222 lb.*
 Tubes: Material ☒ External diameter *3 1/4"* Thickness *7/32"* No. of threads per inch *10*
 Pitch of tubes *4 5/16" x 4 7/16"* Working pressure by Rules *230 lb.* Manhole compensation: Size of opening in
 shell plate *15 3/4" x 11 3/4"* Section of compensating ring *1 1/8" flanged* No. of rivets and diameter of rivet holes *3 per pitch, 1 1/16"*
 Outer row rivet pitch at ends *5 1/4"* Depth of flange if manhole flanged *3 1/2"* Steam Dome: Material ☒
 Tensile strength ☒ Thickness of shell ☒ Description of longitudinal joint ☒
 Diameter of rivet holes ☒ Pitch of rivets ☒ Percentage of strength of joint *Plate* ☒ *Rivets* ☒
 Internal diameter ☒ Working pressure by Rules ☒ Thickness of crown ☒ No. and diameter of
 stays ☒ Inner radius of crown ☒ Working pressure by Rules ☒
 How connected to shell ☒ Size of doubling plate under dome ☒ Diameter of rivet holes and pitch
 of rivets in outer row in dome connection to shell ☒

Type of Superheater *Schmidt.* Manufacturers of *Tubes* ☒ *Steel castings* ☒
 Number of elements *124.* Material of tubes ☒ Internal diameter and thickness of tubes *5/8" bore + 7/8" ga.*
 Material of headers ☒ Tensile strength ☒ Thickness *3/4"* Can the superheater be shut off and
 the boiler be worked separately *yes.* Is a safety valve fitted to every part of the superheater which can be shut off from the boiler *yes.*
 Area of each safety valve *3.14 sq"* Are the safety valves fitted with easing gear *yes.* Working pressure as per
 Rules *165 lb.* Pressure to which the safety valves are adjusted *165 lb.* Hydraulic test pressure:
 tubes *1000 lb.* castings *500 lb.* and after assembly in place Are drain cocks or valves fitted
 to free the superheater from water where necessary *yes.*
 Have all the requirements of Sections 14 to 23 inclusive for boilers been complied with ☒

The foregoing is a correct description,

Manufacturer.

Dates of Survey *During progress of*
 work in shops - -
 while *During erection on*
 building board vessel - -

Are the approved plans of boiler and superheater forwarded herewith
 (If not state date of approval.)
 Total No. of visits

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

The boilers & all their mountings exam^d. 5 furnaces & most of the
 mountings renewed, & along with the superheaters tested to 2500 lb per sq" & they
 are sound & tight.

All the superheater headers have been cleaned & tested separately to 500
 lb per sq" & the elements tested to 1000 lb per sq" & all are sound.

The boiler plating has been drilled, thicknesses verified, & shown on this
 report.

Condition good.

The safety valve washers are as follows:-

Port Boiler. Port valve = *3/4" B.* Start^d. valve = *1 1/16"*

Start^d. do " = *3 7/64"* " " = *3 3/64"*

Superheater valves. Both = *3/8"*

Survey Fee £

Travelling Expenses (if any) £

When applied for,

192

When received,

192

H. L. Pidditch.

Engineer Surveyor to Lloyd's Register of Shipping.

Committee's Minute

FRI. JAN 20 1928

FRI 13 JUL 1928

Assigned

See rpt. 9 attached



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