

## REPORT ON BOILERS.

No. 34234

Received at London Office

Date of writing Report 101 When handed in at Local Office 191 Port of *Glasgow*

No. in Survey held at *Glasgow* Date, First Survey *24-1-16* Last Survey *26/10/17* 191

Reg. Book. *S.S. "Actor"* (Number of Visits *63*) Gross Tons }  
on the } Net

Master Built at *Glasgow* By whom built *D.W. Henderson & Co. (495)* When built *1917*

Engines made at *Glasgow* By whom made *D.W. Henderson & Co. (495)* When made *1917*

Boilers made at *Glasgow* By whom made *D.W. Henderson & Co. (495)* When made *1917*

Registered Horse Power Owners *Messrs J. I. Harrison & Co* Port belonging to *Liverpool*

MULTITUBULAR BOILERS—~~MAIN~~, AUXILIARY OR ~~DONKEY~~.—Manufacturers of Steel *Steel Coy of Scotland*(Letter for record *(S)*) Total Heating Surface of Boilers *1388* Is forced draft fitted *no* No. and Description ofBoilers *One single ended* Working Pressure *210* Tested by hydraulic pressure to *430* Date of test *20/8/17*No. of Certificate *3583* Can each boiler be worked separately *yes* Area of fire grate in each boiler *57* No. and Description ofsafety valves to each boiler *pair direct spring* Area of each valve *4.9* Pressure to which they are adjusted *220*Are they fitted with easing gear *yes* In case of donkey boilers, state whether steam from main boilers can enter the donkey boilerSmallest distance between boilers or uptakes and bunkers or woodwork *about 2'-3"* Mean dia. of boilers *3'-0"* Length *10'-6"*Material of shell plates *steel* Thickness *1 7/16* Range of tensile strength *28 & 32* Are the shell plates welded or flanged *no*Descrip. of riveting: cir. seams *lap double* long. seams *butt triple* Diameter of rivet holes in long. seams *3/16* Pitch of rivets *9 1/2*Lap of plates or width of butt straps *2 1/2* Per centages of strength of longitudinal joint rivets *85* Working pressure of shell byrules *251* Size of manhole in shell *16" x 12"* Size of compensating ring *3' x 35"* flanged No. and Description of Furnaces in eachboiler *3 divisions* Material *steel* Outside diameter *36 7/16* Length of plain part *3'-5 1/16* Thickness of plates crown *1 1/2*Description of longitudinal joint *welded* No. of strengthening rings Working pressure of furnace by the rules *218* Combustion chamberplates: Material *steel* Thickness: Sides *1/16* Back *1/16* Top *1/16* Bottom *1"* Pitch of stays to ditto: Sides *8 1/2" x 8 1/2"* Back *8 1/2" x 8 1/2"*Top *9" x 8"* If stays are fitted with nuts or riveted heads *nuts* Working pressure by rules *225* Material of stays *steel* Diameter atsmallest part *1 9/16* Area supported by each stay *72.5* Working pressure by rules *234* End plates in steam space: Material *steel* Thickness *1 3/8*Pitch of stays *20 1/2" x 8 1/2"* How are stays secured *27 nuts* Working pressure by rules *242* Material of stays *steel* Diameter at smallest part *9.42*Area supported by each stay *381* Working pressure by rules *256* Material of Front plates at bottom *steel* Thickness *1 1/4* Material ofLower back plate *steel* Thickness *1 5/16* Greatest pitch of stays *14 1/4* Working pressure of plate by rules *220* Diameter of tubes *3 1/4*Pitch of tubes *4 1/2" x 4 1/2"* Material of tube plates *steel* Thickness: Front *1 1/4* Back *3/32* Mean pitch of stays *9* Pitch across widewater spaces *14 1/4* Working pressures by rules *222* Girders to Chamber tops: Material *steel* Depth and thickness ofgirder at centre *8 1/2" x 1 double* Length as per rule *32 1/2* Distance apart *9* Number and pitch of Stays in each *(3) 8 1/2*Working pressure by rules *239* Superheater or Steam chest: how connected to boiler *none* Can the superheater be shut off and the boiler worked

separately Diameter Length Thickness of shell plates Material 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,

FOR DAVID &amp; Wm HENDERSON &amp; CO., LTD.

Manufacturer.

Gen. Manager, Glasgow Works

Dates of Survey During progress of work in shops - - - See accompanying Report. Is the approved plan of boiler forwarded herewith *yes*

while building During erection on board vessel - - - Total No. of visits

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

*This boiler has been built under special survey the materials and workmanship are of good description, it has been well fitted on board & tried under steam*

Survey Fee £ : : When applied for, 191

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

Committee's Minute GLASGOW

6 - NOV. 1917

Assigned *See accompanying machinery report.*

A. McLeod &amp; Wm. H. Copeman

Engineer Surveyor to Lloyd's Register of Shipping.

Lloyd's Register Foundation

K60-0182