

# REPORT ON BOILERS.

No. 51756

16 SEP 1931

Received at London Office

Date of writing Report 19... When handed in at Local Office 14-9-1931 Port of Glasgow.

No. in Reg. Book. Survey held at Glasgow. Date, First Survey 24-11-30 Last Survey 10 Sept. 1931.

on the M.V. "IMPERIAL TRANSPORT" (Number of Visits 16) Tons {Gross 8022 Net 4830

Master Built at Glasgow. By whom built Blythwood & Co Yard No. 31 When built 1931
Engines made at Hallsend By whom made R. S. Main & Co. Engine No. 2765 When made 1931
Boilers made at do. By whom made do Boiler No. do When made 1931
Nominal Horse Power 633 Owners Port belonging to

## MULTITUBULAR BOILERS - MAIN, AUXILIARY, OR DONKEY.

Manufacturers of Steel (Letter for Record)

Total Heating Surface of Boilers Is forced draught fitted Coal or Oil fired

No. and Description of Boilers Working Pressure

Tested by hydraulic pressure to Date of test No. of Certificate Can each boiler be worked separately

Area of Firegrate in each Boiler No. and Description of safety valves to each boiler

Area of each set of valves per boiler {per Rule as fitted Pressure to which they are adjusted 180 lbs 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 well clear Is oil fuel carried in the double bottom under boilers

Smallest distance between shell of boiler and tank top plating on upper flat. Is the bottom of the boiler insulated

Largest internal dia. of boilers Length Shell plates: Material Tensile strength

Thickness Are the shell plates welded or flanged Description of riveting: circ. seams {end inter. long. seams Diameter of rivet holes in {circ. seams long. seams Pitch of rivets

Percentage of strength of circ. end seams {plate rivets Percentage of strength of circ. intermediate seam {plate rivets

Percentage of strength of longitudinal joint {plate rivets combined Working pressure of shell by Rules

Thickness of butt straps {outer inner No. and Description of Furnaces in each Boiler

Material Tensile strength Smallest outside diameter

Length of plain part {top bottom Thickness of plates {crown bottom Description of longitudinal joint

Dimensions of stiffening rings on furnace or c.c. bottom Working pressure of furnace by Rules

End plates in steam space: Material Tensile strength Thickness Pitch of stays

How are stays secured Working pressure by Rules

Tube plates: Material {front back Tensile strength Thickness

Mean pitch of stay tubes in nests Pitch across wide water spaces Working pressure {front back

Girders to combustion chamber tops: Material Tensile strength Depth and thickness of girder

at centre Length as per Rule Distance apart No. and pitch of stays

in each Working pressure by Rules Combustion chamber plates: Material

Tensile strength Thickness: Sides Back Top Bottom

Pitch of stays to ditto Sides Back Top Are stays fitted with nuts or riveted over

Working pressure by Rules Front plate at bottom: Material Tensile strength

Thickness Lower back plate: Material Tensile strength Thickness

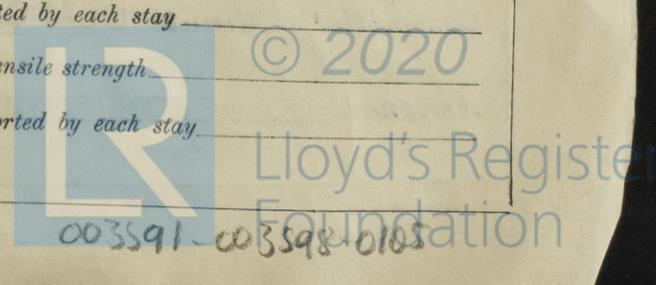
Pitch of stays at wide water space Are stays fitted with nuts or riveted over

Working Pressure Main stays: Material Tensile strength

Diameter {At body of stay or Over threads No. of threads per inch Area supported by each stay

Working pressure by Rules Screw stays: Material Tensile strength

Diameter {At turned off part or Over threads No. of threads per inch Area supported by each stay



Working pressure by Rules *150* Are the stays drilled at the outer ends *Yes* Margin stays: Diameter *1 1/2* { At turned off part, or Over threads } Working pressure by Rules *150*

No. of threads per inch *16* Area supported by each stay *18* Working pressure by Rules *150*

Tubes: Material *Carbon Steel* External diameter *1 1/2* { Plain Stay } Thickness *1/8* No. of threads per inch *16*

Pitch of tubes *12* Working pressure by Rules *150* Manhole compensation: Size of opening in shell plate *12* Section of compensating ring *12* No. of rivets and diameter of rivet holes *12*

Outer row rivet pitch at ends *12* Depth of flange if manhole flanged *12* Steam Dome: Material *Carbon Steel*

Tensile strength *60,000* Thickness of shell *1/8* Description of longitudinal joint *Butt*

Diameter of rivet holes *1/8* Pitch of rivets *12* Percentage of strength of joint *100* { Plate Rivets } No. and diameter of stays *12* Working pressure by Rules *150* Thickness of crown *1/8* Working pressure by Rules *150*

Internal diameter *1 1/2* Working pressure by Rules *150* Inner radius of crown *12* Working pressure by Rules *150*

How connected to shell *Welded* Size of doubling plate under dome *12* Diameter of rivet holes and pitch of rivets in outer row in dome connection to shell *12*

Type of Superheater *Water Tube* Manufacturers of *W. G. & Co.* { Tubes Steel castings } Internal diameter and thickness of tubes *1 1/2 x 1/8*

Number of elements *2* Material of tubes *Carbon Steel* Tensile strength *60,000* Thickness *1/8* 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 *12* Are the safety valves fitted with easing gear *Yes* Working pressure as per Rules *150* Pressure to which the safety valves are adjusted *150* Hydraulic test pressure *225*

tubes *12* castings *12* and after assembly in place *12* Are drain cocks or valves fitted to free the superheater from water where necessary *Yes*

Have all the requirements of Sections 14 to 22 inclusive for boilers been complied with *Yes*

The foregoing is a correct description, *W. G. & Co.* Manufacturer

Dates of Survey *1931* { During progress of work in shops - - } Are the approved plans of boiler and superheater forwarded herewith *Yes* (If not state date of approval.)

while building *1931* { During erection on board vessel - - } SEE ACCOMPANYING MACHINERY REPORT. Total No. of visits *2*

Is this Boiler a duplicate of a previous case *No* If so, state Vessel's name and Report No. *None*

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

*These two boilers have been properly fitted on board secured in position and their safety valves adjusted under steam. They are eligible for the record? 2 D.B. 180 lb.*

Survey Fee ... .. £ *✓* : : } When applied for, *19*

Travelling Expenses (if any) £ *✓* : : } When received, *19*

*A. Campbell for A. Lutter*  
Engineer Surveyor to Lloyd's Register of Shipping

Committee's Minute **GLASGOW 15 SEP 1931**

Assigned **SEE ACCOMPANYING MACHINERY REPORT.** *W.L.*

 © 2020 Lloyd's Register Foundation