

# REPORT ON BOILERS.

No. 41415

Received at London Office WED. 12 OCT. 1921

Date of writing Report 16.10.21 When handed in at Local Office 16.10.21 Port of Glasgow

No. in Survey held at Glasgow Date, First Survey 13th Oct 1920 Last Survey 11th Oct 1921

Reg. Book. on the Marine Baler No 1748. O.O. Ting Sang (Number of Visits 15) Tons } Gross 2256  
Net 1232

Master Built at Port Glasgow By whom built Dunlop & Co. When built 1922

Engines made at Port Glasgow By whom made Dunlop & Co. When made 1922

Boilers made at Glasgow By whom made Forth Shipbuilding Co. When made 1921

Registered Horse Power Owners Indo China O. N. & Co. Port belonging to London

## MULTITUBULAR BOILERS — MAIN, AUXILIARY OR DONKEY. — Manufacturers of Steel Wm Beardmore & Steel Co of Scotland

(Letter for record S) Total Heating Surface of Boilers 576 sq ft Is forced draft fitted no No. and Description of Boilers One Single Ended. Working Pressure 100 Tested by hydraulic pressure to 200 Date of test 4/10/21

No. of Certificate 15916 Can each boiler be worked separately no Area of fire grate in each boiler 24 sq ft No. and Description of safety valves to each boiler Two Spring Area of each valve 3.98 sq in Pressure to which they are adjusted 105 lb

Are they fitted with easing gear yes In case of donkey boilers, state whether steam from main boilers can enter the donkey boiler no

Smallest distance between boilers or uptakes and bunkers or woodwork 21 in dia. of boilers 8'-6" Length 8'-6"

Material of shell plates Steel Thickness 9/16 Range of tensile strength 28/32 Are the shell plates welded or flanged no

Descrip. of riveting: cir. seams Lap S.R. long. seams DBS. S.R. Diameter of rivet holes in long. seams 3/4 Pitch of rivets 4 1/2

Lap of plates or width of butt straps 8" Per centages of strength of longitudinal joint rivets 83.1 Working pressure of shell by rules 82.2

Size of manhole in shell 16" x 12" Size of compensating ring 2'-6" x 2'-2" x 3/4 No. and Description of Furnaces in each boiler No plain Material S Outside diameter 2'-8" Length of plain part 6'-4" Thickness of plates crown 17/32 bottom 17/32

Description of longitudinal joint held No. of strengthening rings none Working pressure of furnace by the rules 168 Combustion chamber plates: Material S Thickness: Sides 9/16 Back 1/2 Top 9/16 Bottom 9/16 Pitch of stays to ditto: Sides 8 1/2 Back 8 1/2 x 8 1/4

Top 9" If stays are fitted with nuts or riveted heads held Working pressure by rules 100 Material of stays Steel Area at smallest part 119 sq in Area supported by each stay 94 sq in Working pressure by rules 102 End plates in steam space: Material Steel Thickness 3/4

Pitch of stays 15" How are stays secured DN Mark Working pressure by rules 118 Material of stays Steel Area at smallest part 27 sq in

Area supported by each stay 225 sq in Working pressure by rules 125 Material of Front plates at bottom Steel Thickness 3/4 Material of Lower back plate Steel Thickness 3/4 Greatest pitch of stays 12 1/2 x 8 3/4 Working pressure of plate by rules 160 Diameter of tubes 3"

Pitch of tubes 4" Material of tube plates Steel Thickness: Front 3/4 Back 2/32 Mean pitch of stays 10" Pitch across wide water spaces 12 1/2" Working pressures by rules 111 Girders to Chamber tops: Material Steel Depth and thickness of girder at centre 6" x 7/8 x 2 Length as per rule 22 3/4 Distance apart 9" Number and pitch of Stays in each one at 10"

Working pressure by rules 132 Steam dome: description of joint to shell none % of strength of joint

Diameter Thickness of shell plates Material Description of longitudinal joint Diam. of rivet holes

Pitch of rivets Working pressure of shell by rules Crown plates Thickness How stayed

UPERHEATER. Type none Date of Approval of Plan Tested by Hydraulic Pressure to

Date of Test Is a Safety Valve fitted to each Section of the Superheater which can be shut off from the Boiler

Diameter of Safety Valve Pressure to which each is adjusted Is Easing Gear fitted

FOR THE FORTH SHIPBUILDING & ENGINEERING CO., LTD.  
(CLINSAV BURNET'S BOILERS)

The foregoing is a correct description,  
Suclair Cooper Manufacturer.

Dates of Survey } During progress of 1920 Oct-13-28 Nov-24 (1921) Jan-19 Feb-9-17 Mar-24 May-5 Jun-27 Is the approved plan of boiler forwarded herewith Yes  
while } During erection on }  
building } board vessel - - - }  
Total No. of visits 15

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

The Boiler has been tried under special survey now efficiently fitted in place  
The workmanship and materials are good. J. L. L.  
The boiler is being sent to Port Glasgow to be fitted on board

Survey Fee ... £ 4 : 4 : } When applied for, 11.10.21  
Travelling Expenses (if any) £ : : } When received, 17.10.21

W. M. Marshall & J. L. L. Regor  
Engineer Surveyors to Lloyd's Register of Shipping.

Committee's Minute GLASGOW 11 OCT 1921

Assigned GLASGOW 21 FEB 1922

TRANSMIT TO LONDON W. M. Marshall & J. L. L. Regor

Sal. Ex. Rpt. No. 17962