

# REPORT ON BOILERS.

No. 34860.

Received at London Office

WED. FEB. 24, 1915

Date of writing Report 16<sup>th</sup> Feb 1915 When handed in at Local Office

Port of GLASGOW

No. in Survey held at Reg. Book.

Date, First Survey 24/8/14 Last Survey 572/ 1915

(Number of Visits 25) Gross 50.39 Tons Net 1.93

on the Marine Boiler designated to 3375

Builder T. Weeks Built at Dartmouth By whom built Philip & Son Ltd When built 1915-5

Engines made at Dartmouth By whom made Philip & Son Ltd When made 1915

Boilers made at Glasgow By whom made Muir & Findlay When made 1915

Registered Horse Power 60 Owners Renwick Wilson & Co Port belonging to Dartmouth

WATER-TUBULAR BOILERS—MAIN, AUXILIARY OR DONKEY.—Manufacturers of Steel David Colville & Levanthorpe

Number for record S Total Heating Surface of Boilers 774 Sq. Ft. Is forced draft fitted No. and Description of Boilers One Single Ended.

Working Pressure 150 lbs Tested by hydraulic pressure to 300 lbs Date of test 5-2-15

Area of Certificate 13810 Can each boiler be worked separately out. Area of fire grate in each boiler 26.5 Sq. Ft. No. and Description of Safety Valves to each boiler 1 Double Spring

Area of each valve 3.14 Pressure to which they are adjusted 150 lbs

Are they fitted with casing gear Yes In case of donkey boilers, state whether steam from main boilers can enter the donkey boiler

Least distance between boilers or uptakes and bunkers or woodwork 4 1/2 ins inside Main dia. of boilers 9'-0" Length 9'-0"

Material of shell plates Steel Thickness 1/16 Range of tensile strength 28 to 32 Are the shell plates welded or flanged No

Direction of riveting: cir. seams DR. Lap long. seams DR. Butt Shape Diameter of rivet holes in long. seams 15/16 Pitch of rivets 5/4

Direction of plates or width of butt straps 9/8 Per centages of strength of longitudinal joint rivets 85.3 plates 82.1 Working pressure of shell by rules 150 lbs

Size of manhole in shell 12" x 16" Size of compensating ring 6" x 1/16 No. and Description of Furnaces in each boiler One Plain

Material Steel Outside diameter 2'-9" Length of plain part top 6'-0" Thickness of plates crown 21/32 bottom 3/32

Description of longitudinal joint welded No. of strengthening rings 40 Working pressure of furnace by the rules 180 lbs Combustion chamber

Material Steel Thickness: Sides 19/32 Back 19/32 Top 19/32 Bottom 3/4 Pitch of stays to ditto: Sides 8 1/2 Back 9 x 8 1/2

Radius of stays are fitted with nuts or riveted heads No Working pressure by rules 152 lbs Material of stays Steel Diameter at smallest part 1 1/2 in

Area supported by each stay 80 sq in Working pressure by rules 150 lbs End plates in steam space: Material Steel Thickness 29/32

How are stays secured Shuts Working pressure by rules 163 lbs Material of stays Steel Diameter at smallest part 1 1/2 in

Area supported by each stay 225 sq in Working pressure by rules 198 lbs Material of Front plates at bottom Steel Thickness 29/32

Material of back plate Steel Thickness 29/32 Greatest pitch of stays 11 1/2 x 7 3/4 Working pressure of plate by rules 298 lbs Diameter of tubes 3 1/4

Material of tube plates Steel Thickness: Front 29/32 Back 5/8 Mean pitch of stays 8 1/2 Pitch across wide spaces 13 1/4

Working pressures by rules 161 lbs Girders to Chamber tops: Material Steel Depth and thickness of girders at centre 7 x 1/2 x 2 Length as per rule 1'-10 1/4 Distance apart 7 1/2

Number and pitch of Stays in each row at 8 1/2 Working pressure by rules 151 lbs Superheater or Steam chest: how connected to boiler

Can the superheater be shut off and the boiler worked independently

Are they fitted with casing gear

By request form attached

The foregoing is a correct description, Muir & Findlay Manufacturer.

Is the approved plan of boiler forwarded herewith Yes. Total No. of visits 25

GENERAL REMARKS (State quality of workmanship, opinions as to class, &c.) This boiler has been built under special survey in accordance with the approved plan. The workmanship and material are of good quality.

The boiler is to the order of Messrs Philip & Son, Dartmouth.

This boiler has been placed on board Safety Valves adjusted to 150 lbs pressure

Survey Fee £ 2 : 12 : 00 When applied for 191

Shipping & Travelling Expenses (if any) £ : : : When received 191

MONTHLY ACCOUNT Peter McGregor

Engineer Surveyor to Lloyd's Register of British and Foreign Shipping.

Committee's Minute GLASGOW 23 FEB. 1915

FRI. DEC. 17, 1915

Transmit to London

