Rpt. 5a.

# REPORT ON BOILERS

No. 39646

Received at London Office FEB. FEB. 18. 1920

Date of writing Report 16th July 1920 When handed in at Local Office 16.2. 1920. Port of Glasgow.

Survey held at Glasgow. Date, First Survey 17. 6. 19. Last Survey 11th July 1920 (Number of Visits 19.)

No. in Reg. Book. on the Marine Boiler No 1701 S/S Saint Aidan Tons Gross 362. Net 138.

Master James Coffey. Built at Bowling By whom built Scott & Sons When built 1920.

Engines made at Govan By whom made Fishers Ltd When made 1920.

Boilers made at Glasgow. By whom made Forthshipbldg Eng Coy Ltd When made 1920

Registered Horse Power Owners J. & A. Gardner & Co. Ld. Port belonging to Glasgow.

MULTITUBULAR BOILERS—MAIN, ~~AUXILIARY OR DONKEY~~.—Manufacturers of Steel Steel Coy of Scotland Ld.

(Letter for record S) Total Heating Surface of Boilers 1360 Sq.ft. Is forced draft fitted No. and Description of Boilers One Single Ended. Working Pressure 130 Tested by hydraulic pressure to 260. Date of test 11/2/20.

No. of Certificate 15087 Can each boiler be worked separately Nil Area of fire grate in each boiler 113 sq ft No. and Description of safety valves to each boiler Area of each valve Pressure to which they are adjusted

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 ~~Mean~~ Int. dia. of boilers 12'-6" Length 10'-0"

Material of shell plates S. Thickness 13/16" Range of tensile strength 28/32 Are the shell plates welded or flanged No.

Descrip. of riveting: cir. seams Lap D.R. long. seams D Butts D Riveted Diameter of rivet holes in long. seams 1" Pitch of rivets 5¼

~~Lap of plates~~ width of butt straps 10½" Per centages of strength of longitudinal joint rivets 82.25 plate 81. Working pressure of shell by rules 130. Size of manhole in shell 16½ x 12½ Size of compensating ring 2'-3" x 2'-7" x 13/16 No. and Description of Furnaces in each boiler Imp plain Material Steel Outside diameter 3'-8⅛ Length of plain part top 6'-3" bottom 6'-3" Thickness of plates crown bottom 21/32" Description of longitudinal joint welded No. of strengthening rings One Working pressure of furnace by the rules 136 Combustion chamber plates: Material S. Thickness: Sides 9/16" Back 9/16" Top 9/16" Bottom 9/16" Pitch of stays to ditto: Sides 8¾ x 9 Back 9⅛ x 8⅞ Top 9 x 8¾ If stays are fitted with nuts or riveted heads nuts Working pressure by rules 135 Material of stays S ~~Diameter~~ area at smallest part 1.455 sq in Area supported by each stay 81 sq in Working pressure by rules 143 End plates in steam space: Material S. Thickness 15/16" Pitch of stays 17 x 17" How are stays secured D nuts. Working pressure by rules 136 Material of stays S. ~~Diameter~~ at smallest part 3.85 sq in Area supported by each stay 289 sq in Working pressure by rules 138 Material of Front plates at bottom S. Thickness ¾" Material of Lower back plate S. Thickness 9/16" Greatest pitch of stays 14" x 8⅞" Working pressure of plate by rules 230. Diameter of tubes 3½ Pitch of tubes 4 13/16 x 4 13/16 Material of tube plates S. Thickness: Front ¾" Back ¾" Mean pitch of stays 12" Pitch across wide water spaces 14" Working pressures by rules with doubler 177. Girders to Chamber tops: Material S. Depth and thickness of girder at centre 6½" x ¾" x 2. Length as per rule 2'-3¾" Distance apart 9" Number and pitch of Stays in each Imp at 8¾

Working pressure by rules 143. Superheater or Steam chest; how connected to boiler 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

Survey request form No 2405 attached

The foregoing is a correct description,

FOR THE FORTH SHIPBUILDING & ENGINEERING CO., LTD. (LINDSAY BURNET'S BOILER WORKS) Manufacturer.

Dates of Survey while building: During progress of work in shops 1919. June 4. Aug 19. 28 Sept 3. 18 Oct 6. 29. During erection on board vessel 1920 Nov 5. 25 Dec 2. 11. 17. 23. 29. Jan 13. 24. 29 Feb 3. 11

Is the approved plan of boiler forwarded herewith Yes.

Total No. of visits 19.

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

The boiler has been built under special survey.
The workmanship & materials are good

(See Glasgow Report No. 40230)

Survey Fee ... ... £ 4 : 11 :
Travelling Expenses (if any)) £ : :

When applied for, 17. 2. 1920.
When received, 19/2/20

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

Committee's Minute GLASGOW 14 FEB 1920 | GLASGOW 3 - AUG 1920
Assigned TRANSMIT TO LONDON | See Glasgow Report No. 40230)

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