Rpt. 5a.

REPORT ON BOILERS.

No. 34143

THU. 20 SEP. 1917

Received at London Office

Date of writing Report ____ 191 When handed in at Local Office ____ 191 Port of Glasgow.

No. in Reg. Book Suppt 32 Survey held at Glasgow. Date, First Survey 14 · 6 · 16 Last Survey 6 · 8 - 1917 (Number of Visits 24) Tons Gross 1535·51 Net 835·95

on the steel screw steamer "LAMBETH"

Master J. P. Le Touze Built at Dublin By whom built Dublin Dockyard Co (No 96) When built 1917

Engines made at Greenock By whom made J. G. Kincaid & Co (No 461) When made 1917

Boilers made at Glasgow. By whom made Ross & Duncan (No 519/20) When made 1917

Registered Horse Power ____ Owners South Metropolitan Gas Co. Port belonging to London

MULTITUBULAR BOILERS—MAIN, AUXILIARY OR DONKEY.

Manufacturers of Steel D. Colville & Sons Ld

(Letter for record S) **Total Heating Surface of Boilers** 3172 ft. Is forced draft fitted no. **No. and Description of Boilers** 2 Single Ended. **Working Pressure** 180 lb Tested by hydraulic pressure to 360 lb. Date of test 6/8/17.

No. of Certificate 13861 Can each boiler be worked separately Yes. **Area of fire grate in each boiler** 50·8 ft. No. and Description of safety valves to each boiler One 2½" Double Spring. Area of each valve 4·9 sq. ins Pressure to which they are adjusted 185 lbs.

Are they fitted with easing gear Yes. 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 5'-3" ~~Mean~~ Ins. dia. of boilers 12'-11" Length 10'-6"

Material of shell plates Steel Thickness 1 1/16" Range of tensile strength 28/32 tons Are the shell plates welded or flanged no.

Descrip. of riveting: cir. seams LAP D.R. long. seams D.S. T.R. Diameter of rivet holes in long. seams 1 1/16" Pitch of rivets 7⅛"

~~Lap of plates~~ or width of butt straps 15⅞" Per centages of strength of longitudinal joint rivets 87·4 plate 85 Working pressure of shell by rules 180 lb Size of manhole in shell 16" × 12" Size of compensating ring 7" × 1 1/16"

No. and Description of Furnaces in each boiler 3 DEIGHTON Material STEEL Outside diameter 3'-4¾" Length of plain part top ✓ bottom ____ Thickness of plates crown ½" bottom ____

Description of longitudinal joint Weld. No. of strengthening rings ✓ Working pressure of furnace by the rules 185 lb Combustion chamber plates: Material STEEL Thickness: Sides 11/16 Back 11/16 Top 11/16 Bottom 11/16 Pitch of stays to ditto: Sides 9" × 10" Back 10" × 8¾" Top 10" × 9" If stays are fitted with nuts or riveted heads NUTS. Working pressure by rules 180 LBS Material of stays STEEL ~~Diameter~~ AREA at smallest part 2·070" Area supported by each stay 8750" Working pressure by rules 212 End plates in steam space: Material STEEL Thickness 17/32"

Pitch of stays 18" × 17½" How are stays secured DOUBLE NUTS & LARGE LOOSE WASHERS Working pressure by rules 180 Material of stays STEEL ~~Diameter~~ AREA at smallest part 5·690"

Area supported by each stay 3150" Working pressure by rules 187 Material of Front plates at bottom STEEL Thickness 27/32" Material of Lower back plate STEEL Thickness 29/32 Greatest pitch of stays 15" × 8¾" Working pressure of plate by rules 188 Diameter of tubes 3¼"

Pitch of tubes 4⅛" Material of tube plates STEEL Thickness: Front 27/32 Back ¾" Mean pitch of stays 10⅝" Pitch across wide water spaces 14" × 5/8 DOUB Working pressures by rules 196 LBS Girders to Chamber tops: Material STEEL Depth and thickness of girder at centre 8½" × 1½" Length as per rule 2'-5 9/16" Distance apart 10" Number and pitch of Stays in each 2-9"

Working pressure by rules 190 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 ____

The foregoing is a correct description,

Ross & Duncan Ironmonger Manufacturer.

Dates of Survey while building: During progress of work in shops - - 1916. June. 14. 27. July. 17. 21. Nov. 13. 23. 29. Dec. 5. 11. 20. 1917 Jan. 9. 18. 22. Feb. 2. 14. 26. Mar. 5. 27. Apl. 24. May. 3. 8. 17. 25. During erection on board vessel - - June. 5. Aug. 3. 6.

Is the approved plan of boiler forwarded herewith Yes. (Please return to this office) Returned 21/9/17

Total No. of visits 24

GENERAL REMARKS (State quality of workmanship, opinions as to class, &c.) These Boilers have been built under Special Survey in accordance with the Rules and the approved plan. They have been forwarded to Dublin to be fitted on board the vessel. The materials and workmanship are good.

These Boilers have been fitted on board the above vessel, examined under steam and found satisfactory. H. G. Forster Dublin 5/12/17

Survey Fee (Payable by J. G. Kincaid & Co) £ 9 - 0 - 0 When applied for, ____ 191

Travelling Expenses (if any) £ : : When received, at Grk. 6.9.1917

W. Ritchie

Engineer Surveyor to Lloyd's Register of Shipping.

Committee's Minute GLASGOW. 19 SEP. 1917

TUE. 11 DEC. 1917

Assigned TRANSMIT TO LONDON

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