REPORT ON BOILERS.

No. 37779

Received at London Office WED. 15 MAY. 1918

...y Report 18. 4. 1918 When handed in at Local Office ..... 191 Port of GLASGOW

Survey held at Paisley Date First Survey 2nd April 1917 Last Survey 6. 5. 1918 (Number of Visits 31)

...n the S.S. "Iosiaud" Marine Boiler designated No. 594-5-6 Tons Gross 4216 Net 2633

Built at Londonderry By whom built Mess. of Ireland S.B. Co. Ltd When built 1918

...ade at ..... By whom made ..... When made .....

...ade at Paisley By whom made Messrs A. F. Craig & Co. Ltd (594-5-6) When made 1918

Horse Power ..... Owners Moss Steamship Co. Ltd Port belonging to Liverpool

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TUBULAR BOILERS—MAIN, ~~AUXILIARY OR DONKEY~~.—Manufacturers of Steel The Steel Co. of Scotland

...record S) **Total Heating Surface of Boilers** 6831 ☐' Is forced draft fitted Yes **No. and Description of**

3 Single Ended **Working Pressure** 180 Tested by hydraulic pressure to 360 Date of test 8.4.18 16.4.18 6.5.18

...rtificate 14211 14226 14259 Can each boiler be worked separately Yes **Area of fire grate in each boiler** 53.39 ☐' No. and Description of

...ves to each boiler Two - Direct Spring Area of each valve 8.29 sq" Pressure to which they are adjusted 185 lbs

...itted with easing gear Yes In case of donkey boilers, state whether steam from main boilers can enter the donkey boiler No

...distance between boilers or uptakes and bunkers or woodwork About 5 ft Mean dia. of boilers 15' 17/32" Length 11' - 9"

...of shell plates S Thickness 17/32" Range of tensile strength 28/32 Are the shell plates welded or flanged —

...of riveting: cir. seams DR long. seams TR. D.B.S Diameter of rivet holes in long. seams 1 1/4" Pitch of rivets 8 3/4"

...width of butt straps 18 1/2" Per centages of strength of longitudinal joint rivets 85.68 % plate 85.7 % Working pressure of shell by

...2 Size of manhole in shell 16" x 12" Size of compensating ring 28 1/4 x 32 1/4 x 17/32" **No. and Description of Furnaces in each**

Corrugated Material S Outside diameter 3' 11 1/4" Length of plain part top — bottom ✓ Thickness of plates crown / bottom 9/16

...n of longitudinal joint weld No. of strengthening rings — Working pressure of furnace by the rules 200 Combustion chamber

...Material S Thickness: Sides 5/8" Back 19/32" Top 5/8" Bottom 3/4" Pitch of stays to ditto: Sides 8 1/4 x 7 1/2 Back 8 3/4 x 7 5/8

...9" If stays are fitted with nuts or riveted heads DN Working pressure by rules 182 Material of stays S ~~Diameter~~ area at

...part 17 2/4 □" Area supported by each stay 74.25 □" Working pressure by rules 230 End plates in steam space: Material S Thickness 13/16"

...stays 20 x 18" How are stays secured DN Washers Working pressure by rules 185 Material of stays S ~~Diameter~~ area at smallest part 6.35 □"

...ported by each stay 360 □" Working pressure by rules 184 Material of Front plates at bottom S Thickness 29/32" Material of

...ck plate S Thickness 13/16" Greatest pitch of stays 12 3/4" Working pressure of plate by rules 205 Diameter of tubes 3"

...tubes 4 1/4 x 4 1/4" Material of tube plates S Thickness: Front 29/32 & 13/16" Back 25/32" Mean pitch of stays 10 5/8" Pitch across wide

...ces 13 1/2" Working pressures by rules 220 Girders to Chamber tops: Material S Depth and thickness of

...centre 10 1/4 x 3/4 (2) Length as per rule 35 5/8" Distance apart 9" Number and pitch of Stays in each 3 at 8 1/4"

...pressure by rules 184 Superheater or Steam chest; how connected to boiler — Can the superheater be shut off and the boiler worked

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

...Pitch of rivets Working pressure of shell by rules Diameter of flue Material of flue plates Thickness

...d with rings Distance between rings Working pressure by rules End plates: Thickness How stayed

...pressure of end plates Area of safety valves to superheater Are they fitted with easing gear

...rvey request form ...1978 attached

The foregoing is a correct description,

A. F. CRAIG & CO. LTD.

Hector F. MacIntosh Manufacturer.

During progress of work in shops - - } 1917 Apr. 2, 24. May 22, 31. Jun. 14, 19. Jly. 10, 19, 24. Aug. 6, 23. Sept. 6, 21. Oct. 3, 23. Nov. 1, 7, 16. 1918 Jan. 14, 28. Feb. 8, 13, 21, 26. Mar. 11, 21. Apr. 4, 8, 16, 29. May 6.

During erection on board vessel - - - }

Is the approved plan of boiler forwarded herewith Yes

Total No. of visits 31

...RAL REMARKS (*State quality of workmanship, opinions as to class, &c.*) These boilers have been built ...der Special Survey in accordance with the approved ...ns & the workmanship & material are of good quality ...e boilers are being shipped to Londonderry at which port they ...ll fitted on board

...ey Fee £ 16 - 3 - 14 When applied for, ... 191

...elling Expenses (if any) £ : : When received, ... 191

Wm. Gordon Murchin

Engineer Surveyor to Lloyd's Register of Shipping.

MONTHLY ACCOUNT.

FRI. 10 JAN. 1919

FRI. 14 FEB. 1919

...ittee's Minute GLASGOW. 14 MAY 1918

...ed TRANSMIT TO LONDON

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