MON APR 7 - 1913

Sld Rpt. 25632

Rpt. 5a.

REPORT ON BOILERS.

No. 7779.

Received at London Office THU. FEB. 20. 1913

Date of writing Report 19·2·13 191 When handed in at Local Office 19. 2 191 Port of Middlesbrough

No. in Reg. Book. Survey held at Stockton-on-Tees Date, First Survey 13th Decr., 1912 Last Survey 12th Feby., 1913 17th March 1913

on the Steel S.S. "Iossifoglu" (Number of Visits 9) (S.S. No. 278) Tons Gross 3560 Net 2167

Master Theophilata Built at Sunderland By whom built Robt. Thompson & Sons Ltd When built 1913

Engines made at Sunderland By whom made N.E. Mar Eng Coy Ld When made 1913

Boilers made at Stockton By whom made Messrs Riley Bros Ltd (No. 4466) When made 1913

Registered Horse Power Owners Socrates Iossifoglu Port belonging to Piraeus

MULTITUBULAR BOILERS ~~MAIN, AUXILIARY OR~~ DONKEY.—Manufacturers of Steel J. Spencer & Sons

(Letter for record (S)) **Total Heating Surface of Boilers** 1140 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 12·2·13

No. of Certificate 5023 Can each boiler be worked separately ✓ **Area of fire grate in each boiler** 35 ft No. and Description of safety valves to each boiler Two spring loaded Area of each valve 5·94 □" Pressure to which they are adjusted 100 lbs.

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~~ (14") On main deck. ~~Mean~~ Inside dia. of boilers 11'-0" Length 10'-0"

Material of shell plates steel Thickness 19/32 Range of tensile strength 28-32 Are the shell plates welded or flanged no

Descrip. of riveting: cir. seams 2·R. lap long. seams 2B-2 Riv 3 Rivets per pitch Diameter of rivet holes in long. seams 15/16 Pitch of rivets 5½"

~~Lap of plates or~~ width of butt straps 9½ × 19/32 Per centages of strength of longitudinal joint rivets 94·8 plate 82·9 Working pressure of shell by rules 103 Size of manhole in shell 19" × 15" Size of compensating ring 7" × 1" McNeil **No. and Description of Furnaces in each boiler** 2 plain Material steel Outside diameter 40" Length of plain part top 76" bottom 103" Thickness of plates crown 5/8" bottom 11/16 mean

Description of longitudinal joint Weld No. of strengthening rings none Working pressure of furnace by the rules 123 Combustion chamber plates: Material steel Thickness: Sides 17/32" Back 5/8" Top 17/32" Bottom 13/16" Pitch of stays to ditto: Sides 9¼" × 8" Back 9" × 10" Top 10" × 8" If stays are fitted with nuts or riveted heads nuts Working pressure by rules 105 Material of stays steel ~~Diameter~~ area at smallest part 1·23 Area supported by each stay 80 Working pressure by rules 123 End plates in steam space: Material steel Thickness 55/64

Pitch of stays 14 × 19½ to tubes How are stays secured, nuts & 7 × ½ washers Working pressure by rules 113 Material of stays steel ~~Diameter~~ area at smallest part 3·67

Area supported by each stay 348·5 Working pressure by rules 109 Material of Front plates at bottom steel Thickness 55/64 Material of Lower back plate steel 3 Thickness 55/64 Greatest pitch of stays 13" × 10" Working pressure of plate by rules 189 Diameter of tubes 3¼"

Pitch of tubes 4½ × ~~4½~~ 48 Material of tube plates steel Thickness: Front 55/64" Back 5/8" Mean pitch of stays 10⅜" Pitch across wide water spaces 14" Working pressures by rules 130 Girders to Chamber tops: Material steel Depth and thickness of girder at centre 6½" × 1½" Length as per rule 28" Distance apart 10" Number and pitch of Stays in each 2 @ 8"

Working pressure by rules 120 Superheater or Steam chest; ~~how connected to boiler~~ none 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

EJS 20.2.13

FOR RILEY BROS. (BOILERMAKERS) LIMITED.

A. Lund SECRETARY.

The foregoing is a correct description,

Manufacturer.

Dates of Survey while building: During progress of work in shops - - 1912. Decr. 13. 20. 1913. Jany. 17. 25. 29. 31. Is the approved plan of boiler forwarded herewith yes

During erection on board vessel - - - Feby. 4. 7. 12. Feb. 28 Mar 5. 12. Total No. of visits 9 12

GENERAL REMARKS (State quality of workmanship, opinions as to class, &c.) This boiler has been built under special survey, is of good material and workmanship and on completion was tested by hydraulic pressure with satisfactory results

It is securely fitted on board & mounted & its safety valves are adjusted under steam to above pressure

SURVEY REQUEST NO. 722 ATTACHED.

Survey Fee ... ... £ 3 : 16 : 0 When applied for, ... 191

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

MONTHLY A/c.

Wm Morrison William Butler

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

Committee's Minute FRI. MAR 28 1913

Assigned

Lloyd's Register Foundation

W 60-0099