5a.

REPORT ON BOILERS.

No. 72213

Received at London Office WED. 3 SEP. 1919

of writing Report 16 Aug 1919 When handed in at Local Office 191 Port of Newcastle on Tyne

in Survey held at Newcastle on Tyne Date, First Survey 14th April. Last Survey 19th Aug 1919

Book. (Number of Visits 30) Tons { Gross 5307 Net 3196

on the Screw Steamer "PASHA".

er Built at Wallsend By whom built Swan Hunter & Wigham Richardson Ltd When built 1919

nes made at Newcastle on Tyne By whom made Swan Hunter & Wigham Richardson Ltd When made 1919

rs made at Newcastle on Tyne By whom made Swan Hunter & Wigham Richardson When made 1919

stered Horse Power Owners Asiatic Steam Nav. Co Ltd. Port belonging to London

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ULTITUBULAR BOILERS ~~MAIN, AUXILIARY OR~~ DONKEY.—Manufacturers of Steel J. Spencer Sons Ltd

er for record £.) **Total Heating Surface of Boilers** 1165 Sq: ft Is forced draft fitted No. **No. and Description of**

ers One: Cylr Mult Single **Working Pressure** 110 lb Tested by hydraulic pressure to 220 lb Date of test 31/7/19

of Certificate 9268 Can each boiler be worked separately **Area of fire grate in each boiler** 34 Sq: ft. No. and Description of

y valves to each boiler 2: Direct Spring loaded Area of each valve 5.93" Pressure to which they are adjusted 115 lb

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

llest distance between boilers or uptakes and bunkers or woodwork 18". ~~Mean~~ Outside dia. of boilers 12'. 0" Length 10'. 0"

erial of shell plates Steel Thickness 3/4" Range of tensile strength 29½/34 tons Are the shell plates welded or flanged No

rip. of riveting: cir. seams Lap Single long. seams Lap Treble Diameter of rivet holes in long. seams 1 1/16" Pitch of rivets 3 15/16"

~~of plates or width of butt straps~~ 2 1/4" Per centages of strength of longitudinal joint rivets 46.5 plate 73. Working pressure of shell by

111 lb Size of manhole in shell 16" x 12". Size of compensating ring 35 3/4" x 3 1/4" x 3/4" **No. and Description of Furnaces in each**

er 2: Deans Material Steel Outside diameter 4' 4 1/2" Length of plain part top 6' 0 3/4" bottom 6' 6" Thickness of plates crown 5/8" bottom 5/8"

ription of longitudinal joint B.& S. Single No. of strengthening rings none Working pressure of furnace by the rules 118 lb Combustion chamber

s: Material Steel Thickness: Sides 9/16" Back 19/32" Top 9/16" Bottom 13/16" Pitch of stays to ditto: Sides 9 1/2" x 9 1/2" Back 10" x 9 1/2"

9" x 9 1/2" If stays are fitted with nuts or riveted heads Nuts. Working pressure by rules 124 lb Material of stays Steel Area at

llest part 1.45" Area supported by each stay 95" Working pressure by rules 122 lb End plates in steam space: Material Steel Thickness 13/16"

h of stays 1 7/8" x 1 7/8" How are stays secured Nuts & Rivetted washers top row. Working pressure by rules 138 lb Material of stays Steel Area at smallest part 3.26"

supported by each stay 275" Working pressure by rules 123 lb Material of Front plates at bottom Steel Thickness 13/16" Material of

er back plate Steel Thickness 12/16" Greatest pitch of stays 14 1/4" Working pressure of plate by rules 110 lb Diameter of tubes 3 1/4"

h of tubes 4 1/2" x 4 3/8" Material of tube plates Steel Thickness: Front 13/16" Back 25/32" Mean pitch of stays 11 1/8" Pitch across wide

r spaces 14 1/4" Working pressures by rules Front 116 lb Back 176 lb Girders to Chamber tops: Material Steel Depth and thickness of

er at centre 8 1/2" x 1" Length as per rule 30 5/8" Distance apart 9" Number and pitch of Stays in each 2: 9 1/2".

king pressure by rules 124 lb Steam dome: ~~description of joint to shell~~ none % of strength of joint

neter Thickness of shell plates Material Description of longitudinal joint Diam. of rivet holes

h of rivets Working pressure of shell by rules Crown plates Thickness How stayed

ERHEATER. Type Date of Approval of Plan Tested by Hydraulic Pressure to

of Test Is a Safety Valve fitted to each Section of the Superheater which can be shut off from the Boiler

eter of Safety Valve Pressure to which each is adjusted Is Easing Gear fitted

The foregoing is a correct description,

FOR SWAN, HUNTER & WIGHAM RICHARDSON, LTD.

Manufacturer.

utes / urvey / ile / ding — During progress of work in shops - - - See Machy Report

During erection on board vessel - - -

Is the approved plan of boiler forwarded herewith Yes.

Total No. of visits

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

This Boiler was built under special survey and the materials and workmanship are good. On completion it was tested as required by the Rules. For recommendations see accompanying report.

Survey Fee ... £ : : When applied for, 191

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

Wm R Austin J McMillan.

Engineer Surveyor to Lloyd's Register of Shipping.

mmittee's Minute FRI SEP 12 1919

signed

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