pt. 5a.

REPORT ON BOILERS.

No. 10529

Received at London Office SAT. NOV. 20 1920

te of writing Report 25/11/19 191 When handed in at Local Office 25/11/19 191 Port of MIDDLESBRO' Reg. 26 NOV. 1919

No. in Reg. Book. Survey held at Stockton-on-Tees Date, First Survey 6th August Last Survey 17th November 1919 (Number of Visits 11)

5890 on the Steel auxiliary Twin S.S. Hulk "DANEDRONNING" (YARD No. 2) Tons Gross 1688.08 Net 1229.58

aster A. Sandvej Built at Rødbyhavn By whom built Rødbyhavn Jernskibsvaerft When built 1920

ngines made at Holeby By whom made Holeby Dieselmotor Fabrik When made 1920

oilers made at Stockton By whom made Messrs Riley Bros Ltd (No 5207) When made 1919

egistered Horse Power 320 Owners ~~A. Rødbyhavn, Jernskibsvaerft~~ Dansk Skibsselskab af Oesterø. (Svensen & Jespersen) Port belonging to Copenhagen.

ULTITUBULAR BOILERS ~~MAIN, AUXILIARY OR~~ DONKEY.—Manufacturers of Steel Messrs John Spencer Stone Ltd

etter for record (S)) **Total Heating Surface of Boilers** 555 ☐' Is forced draft fitted No **No. and Description of** oilers One single ended **Working Pressure** 100 Tested by hydraulic pressure to 200 Date of test 17.11.19

. of Certificate 6052 Can each boiler be worked separately ✓ **Area of fire grate in each boiler** 28 ☐' No. and Description of fety valves to each boiler 2 off directly spring loaded Area of each valve 3.14 ☐" Pressure to which they are adjusted 100 lbs.

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

nallest distance between boilers or uptakes and bunkers or woodwork 23" ~~Mean~~ Inside dia. of boilers 8'-8" Length 8'-8"

aterial of shell plates steel Thickness 17/32 Range of tensile strength 28-32 Are the shell plates welded or flanged no

escrip. of riveting: cir. seams single lap long. seams 2 R - 2 Riv 3 Rivets per pitch Diameter of rivet holes in long. seams 13/16" Pitch of rivets 4½"

~~ge of plates~~ or width of butt straps 8½" × ½" Per centages of strength of longitudinal joint rivets 97.0 plate 82.0 Working pressure of shell by les 112 Size of manhole in shell 17½" × 15½" Size of compensating ring 7" × 13/16" Mc Neil **No. and Description of Furnaces in each** iler 2 plain Material steel Outside diameter 32" Length of plain part top 63⅞" bottom 89" Thickness of plates crown 17/32 bottom 17/32

scription of longitudinal joint Weld No. of strengthening rings none Working pressure of furnace by the rules 107 Combustion chamber ates: Material steel Thickness: Sides 17/32" Back 17/32" Top 17/32" Bottom 17/32" Pitch of stays to ditto: Sides 9" × 9" Back 9" × 8½"

p 9" × 8" If stays are fitted with nuts or riveted heads nuts Working pressure by rules 150 Material of stays steel ~~Diameter~~ area at allest part .96 Area supported by each stay 76.5 Working pressure by rules 100 End plates in steam space: Material steel Thickness ¾"

tch of stays 14¾" × 15½" How are stays secured nuts to tubes & 7 × 9/16 washers Working pressure by rules 100 Material of stays steel Diameter at smallest part 2.87

ea supported by each stay 228 Working pressure by rules 104 Material of Front plates at bottom steel Thickness ¾" Material of wer back plate steel Thickness ¾" Greatest pitch of stays 13½" × 9" Working pressure of plate by rules 147 Diameter of tubes 3¼"

tch of tubes 4½" × 4¼" Material of tube plates steel Thickness: Front ¾" Back ⅝" Mean pitch of stays 11 Pitch across wide ter spaces 13½" Working pressures by rules 116 Girders to Chamber tops: Material steel Depth and thickness of der at centre 5½" × 1¼" Length as per rule 26" Distance apart 8" Number and pitch of Stays in each 2 @ 9"

orking pressure by rules 113 Superheater or Steam chest: ~~how connected to boiler~~ none Can the superheater be shut off and the boiler worked arately Diameter Length Thickness of shell plates Material Description of longitudinal joint Diam. of rivet es Pitch of rivets Working pressure of shell by rules Diameter of flue Material of flue plates Thickness

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

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

The foregoing is a correct description,

FOR RILEY BROS. (BOILERMAKERS) LIMITED. Manufacturer.

Dates Survey while ilding — During progress of work in shops: 1919. Aug 6.12. Sep. 22.24.29. Oct 13.17.24. Nov 5.11.17 — During erection on board vessel: - - -

Is the approved plan of boiler forwarded herewith? no

Total No. of visits 11 Forwarded with Report No. 10505

ENERAL REMARKS (State quality of workmanship, opinions as to class, &c.) This boiler has been built under pecial survey: is of good material and workmanship and on completion was tested by ydraulic pressure with satisfactory results. The boiler is to be forwarded to Copenhagen

duplex feed pump 4½" × 2" × 4" and a feed injector are fitted to the donkey boiler.

Survey Fee ... ... £ 2-2-0 When applied for, Monthly 191 a/c.

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

Wm Morrison

Engineer Surveyor to Lloyd's Register of Shipping.

mmittee's Minute TUE. 7 DEC. 1920

signed

© 2019 Lloyd's Register Foundation

W473 - 0178