pt. 5a.

E 4.5.17

REPORT ON BOILERS.

No. 29973

SAT. -2 JUN. 1917

Received at London Office

te of writing Report 29-5-17 191 When handed in at Local Office 31-5-17 191 Port of Hull

No. in Reg. Book. Survey held at Hull Date, First Survey 23. 1. 17 Last Survey 31-5-17 191

on the Boiler for S. trawler Charles Astie (Number of Visits 26.) Tons Gross 325 Net 130

aster Built at Selby By whom built Cochrane & Sons Ld When built 1917-5

ngines made at Halifax By whom made Campbell Gas Engine Co Ld (867) When made 1917-5

oilers made at Hull By whom made C. H. Holmes & Co Ld (W1137) When made 1917-5

egistered Horse Power Owners British Admiralty Port belonging to

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ULTITUBULAR BOILERS—MAIN, ~~AUXILIARY OR DONKEY~~.—Manufacturers of Steel Stewarts & Lloyds

etter for record S) Total Heating Surface of Boilers 1440 ⌀ Is forced draft fitted no No. and Description of

oilers one single ended Working Pressure 200 Tested by hydraulic pressure to 400 Date of test 5-5-17

o. of Certificate 3210 Can each boiler be worked separately ✓ Area of fire grate in each boiler 48 ⌀ No. and Description of

fety valves to each boiler Two spring loaded Area of each valve 4.9 □" Pressure to which they are adjusted 205

re they fitted with easing gear yes In case of donkey boilers, state whether steam from main boilers can enter the donkey boiler ✓

nallest distance between boilers ~~or uptakes~~ and bunkers ~~or woodwork~~ 8" bbl lagged Int ~~Mean~~ dia. of boilers 165" Length 10'-6"

aterial of shell plates steel Thickness 1 15/64 Range of tensile strength 28-32 Are the shell plates welded or flanged no

escrip. of riveting: cir. seams double long. seams S.R.D.B.S. Diameter of rivet holes in long. seams 1 7/32" Pitch of rivets 8 1/8"

~~p of plates or~~ width of butt straps 18" Per centages of strength of longitudinal joint rivets 87 plate 85 Working pressure of shell by

les 201 Size of manhole in shell 16" × 12" Size of compensating ring 7" × 1 15/64 No. and Description of Furnaces in each

oiler Three plain Material steel Outside diameter 40" Length of plain part top 78 1/2" bottom 69" Thickness of plates crown bottom 13/16"

escription of longitudinal joint welded No. of strengthening rings ✓ Working pressure of ~~furnace~~ by the rules 206 Combustion chamber

ates: Material steel Thickness: Sides 3/4" Back 23/32" Top 3/4" Bottom 3/4" Pitch of stays to ditto: Sides 10" × 8" Back 9 3/4" × 8 3/4"

p 11" × 8" If stays are fitted with nuts or riveted heads nuts Working pressure by rules 208 Material of stays steel ~~Diameter~~ area at

allest part 2.07 □" Area supported by each stay 88 □" Working pressure by rules 211 End plates in steam space: Material steel Thickness 1 7/32"

tch of stays 19" × 17 5/8" How are stays secured D. N & W. Working pressure by rules 210 Material of stays steel ~~Diameter~~ area at smallest part 7.5 □"

rea supported by each stay 335 □" Working pressure by rules 233 Material of Front plates at bottom steel Thickness 15/16" Material of

wer back plate steel Thickness 15/16" Greatest pitch of stays 13 3/4 × 9 9/16" Working pressure of plate by rules 216 Diameter of tubes 3 1/2"

tch of tubes 4 7/8" Material of tube plates steel Thickness: Front 15/16 + 3/4 Dbl Back 7/8" Mean pitch of stays 10" Pitch across wide

ter spaces 14" Working pressures by rules 275 lbs Girders to Chamber tops: Material steel Depth and thickness of

rder at centre 11" × 1 3/4" Length as per rule 36.218 Distance apart 11" Number and pitch of Stays in each Three 8"

orking pressure by rules 201 Superheater or Steam chest; how connected to boiler ✓ Can the superheater be shut off and the boiler worked

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

les ✓ 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 ✓

p. pro CHARLES D. HOLMES & Co., Ltd.

The foregoing is a correct description,

Arthur H. Dimel DIRECTOR Manufacturer.

Dates Survey while uilding: During progress of work in shops - - 1917:- Jan 23. Mar. 5. 8. 14. 19. 23. 27. 29 Apr 21. 11. 13. 16. 18. 23. 26. 27. May 1. 4. 5. 10. 16. 21. During erection on board vessel - - - 23. 25. 30. 31.

Is the approved plan of boiler forwarded herewith forwarded with William Westenburgh

Total No. of visits 26.

ENERAL REMARKS (State quality of workmanship, opinions as to class, &c.) This boiler has been constructed under special survey in accordance with the approved plan & the rules of this Society the materials & workmanship are good the boiler has been tested by hydraulic pressure to 400 lbs & found sound & tight. It has been properly fitted & secured on board the vessel & tested under steam

Survey Fee ... 1/3 £ 8 : 14 : When applied for, 1-6-1917

Travelling Expenses (if any)) £ : 12/3 : When received, 29/6/17 191

Frank L Sturgeon

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

TUE 5 JUN. 1917

Committee's Minute

Assigned See f.l. rpt attached

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W736-0080