

REPORT ON BOILERS.

No. 16403
15284

Received at London Office

of writing Report April 14 1919 When handed in at Local Office April 22 1919 Port of New York
No. in Survey held at Bayonne N.J. Date, First Survey Jan 30 1918 Last Survey April 12 1919
g. Book. on the S.S. "INGOLD" Submarine Boat Corp. Hull No 4 (Number of Visits 91) Gross 3659 Tons Net 2256
ster P. D. Peterson Built at Newark Bay Shipyard by whom built Submarine Boat Corporation When built 1919
gines made at Essington Pa. By whom made Westinghouse Electric & Mfg. Co. When made 1918
ears made at Milwaukee Wisc. By whom made Falk Co. When made 1919
lers made at Bayonne N.J. By whom made Babcock & Wilcox Co. When made 1918
gistered Horse Power 1932 Owners U.S. Shipping Board Emergency F. Port belonging to Newark N.J.

MULTITUBULAR BOILERS—MAIN, AUXILIARY OR DONKEY.—Manufacturers of Steel Lukens Steel Co
etter for record S) Total Heating Surface of Boilers 5804 sq ft Is forced draft fitted Induced No. and Description of
llers Two Water Tube Working Pressure 200 lb Tested by hydraulic pressure to 400 lb Date of test 2 Oct. 1918
of Certificate 68 Can each boiler be worked separately yes Area of fire grate in each boiler 87 1/4 sq ft No. and Description of
ety valves to each boiler Two 3" Area of each valve 7.06 sq in Pressure to which they are adjusted 198
e they fitted with easing gear yes In case of donkey boilers, state whether steam from main boilers can enter the donkey boiler
allest distance between boilers or uptakes and bunkers or woodwork 9" Mean dia. of boilers 42" Length 14' 7 3/8"
aterial of shell plates Steel Thickness 1/2" Range of tensile strength 60,000 Are the shell plates welded or flanged No
scrip. of riveting: cir. seams S R lap long. seams D R D B S Diameter of rivet holes in long. seams 29/32" Pitch of rivets 2 3/4" 4 1/16"
p of plates or width of butt straps 9 3/4" 15" Per centages of strength of longitudinal joint rivets 108 Working pressure of shell by
es 243 lb Size of manhole in shell 15" x 11" Size of compensating ring 7 1/2" plate 80.1
No. and Description of Furnaces in each
iler 1 Material 1 Outside diameter 1 Length of plain part top 10 bottom 1 Thickness of plates crown 1 bottom 1
scription of longitudinal joint 1 No. of strengthening rings 1 Working pressure of furnace by the rules 1 Combustion chamber
tes: Material 1 Thickness: Sides 1 Back 1 Top 1 Bottom 1 Pitch of stays to ditto: Sides 1 Back 1
p 1 If stays are fitted with nuts or riveted heads 1 Working pressure by rules 1 Material of stays 1 Diameter at
allest part 1 Area supported by each stay 1 Working pressure by rules 1 End plates in steam space: Material Steel Thickness 19/32"
ch of stays 1 How are stays secured 42" Rods Approved Working pressure by rules 200 Material of stays 1 Diameter at smallest part 1
u supported by each stay 1 Working pressure by rules 1 Material of Front plates at bottom 1 Thickness 1 Material of
ver back plate 1 Thickness 1 Greatest pitch of stays 1 Working pressure of plate by rules 1 Diameter of tubes 1
ch of tubes 1 Material of tube plates 1 Thickness: Front 1 Back 1 Mean pitch of stays 1 Pitch across wide
er spaces 1 Working pressures by rules 1 Girders to Chamber tops: Material 1 Depth and thickness of
ter at centre 1 Length as per rule 1 Distance apart 1 Number and pitch of Stays in each 1
rking pressure by rules 1 Superheater or Steam chest: how connected to boiler 1 Can the superheater be shut off and the boiler worked
orately 1 Diameter 1 Length 1 Thickness of shell plates 1 Material 1 Description of longitudinal joint 1 Diam. of rivet
s 1 Pitch of rivets 1 Working pressure of shell by rules 1 Diameter of flue 1 Material of flue plates 1 Thickness 1
tiffened with rings 1 Distance between rings 1 Working pressure by rules 1 End plates: Thickness 1 How stayed 1
rking pressure of end plates 1 Area of safety valves to superheater 1 Are they fitted with easing gear 1

VERTICAL DONKEY BOILER—No. Description Manufacturers of steel
de at By whom made When made Where fixed Working pressure
ed by hydraulic pressure to Date of test No. of Certificate Fire grate area Description of safety valves
of safety valves Area of each Pressure to which they are adjusted If fitted with easing gear If steam from main boilers can
the donkey boiler Dia. of donkey boiler Length Material of shell plates Thickness Range of tensile
gh Descrip. of riveting long. seams Dia. of rivet holes Whether punched or drilled Pitch of rivets
of plating Per centage of strength of joint Rivets Plates Working pressure of shell by rules Thickness of shell crown plates
us of do. No. of Stays to do. Dia. of stays Diameter of furnace Top Bottom Length of furnace
ckness of furnace plates Description of joint Working pressure of furnace by rules Thickness of furnace crown
es Radius of do. Stayed by Diameter of uptake Thickness of uptake plates
ckness of water tubes

The foregoing is a correct description.
per J. Stenger
The Babcock & Wilcox Co. Manufacturer.
Marine Dept

During progress of work in shops - - 1918: Jan 30. Feb 6. Mar 6. 14. 15. 18. 19. 21. 22. 23. 24. 25. 29. 30. Apr 1. 2. 4. 5. 6. 8. 9. daily until 20 June 18
During erection on board vessel - - 1918: June 3. Sept 17. Oct 2. 9. 1919: March 27. April 5. 12.
Total No. of visits 91.
Is the approved plan of main boiler forwarded herewith

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

These boilers have been constructed under Special Survey and in accordance with plans approved July 18-1917. The workmanship and material are both of good quality. The steam-drums and sections have been tested by hydraulic pressure to 400 lb per sq. inch, and found tight and sound. They have now been despatched for fitting aboard. To complete the survey the boilers to be re-erected on board, and tested by hydraulic pressure, all mountings to be examined and fitted. Safety-valves to be adjusted under steam.

These boilers (together with Superheaters) have been installed aboard the S.S. 'INGOLD' & tested satisfactorily to 400 lbs. per sq. inch. hydrostatic pressure. Boilers mounting examined & found satisfactory. Safety valves have been adjusted under steam to blow at 198 lbs. & accumulation tests on boilers carried out.

Port of
No. in
Reg. Book
owners
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DESCRIPTION
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Positions of

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DESCRIPTION
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Leads to la
Cargo light
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Are there
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clamp

Certificate (if required) to be sent to
(The Surveyors are requested not to write on or below the space for Committee's Minute.)

| | | | |
|--------------------------------|---|---|-------------------|
| The amount of Entry Fee .. £ | : | : | When applied for, |
| Special £ | : | : | 19 |
| Donkey Boiler Fee £ | : | : | When received, |
| Travelling Expenses (if any) £ | : | : | 19 |

Committee's Minute
Assigned
New York MAY 7 1919
See N. Y. Rpt 16403.

H. Wilkinson
Alexander Macnair
Engineer Surveyor to Lloyd's Register of Shipping.

