

400th Rpt. 5c.
yes
no

REPORT ON WATER TUBE BOILERS.

19832
No. 16826
WED. 16 FEB. 1921

Date of writing Report 191 When handed in at Local Office 191 Port of New York

No. in Survey held at Bayonne N.J. Date, First Survey May 12 Last Survey 1917

Reg. Bk. on the S/S "SUWORDENCO" Number of Visits 1 Gross 3548 Tons Net 2174

Master Submarine Boat Corp. Built at Newark N.J. By whom built Submarine Boat Corp. When built 1920

Engines made at Essington Pa. By whom made Westinghouse E. & Mfg. Co. When made 1920

Boilers made at Bayonne N.J. By whom made Babcock & Wilcox Co. When made 1920

Registered Horse Power 386 Owners Submarine Boat Corp. Port belonging to Newark N.J.

WATER TUBE BOILERS—MAIN, AUXILIARY, OR DONKEY.—Manufacturers of Steel Lukens Steel Co.

(Letter for Record S.) Date of Approval of plan July 18-1917 Number and Description or Type of Boilers Two Water Tube Working Pressure 200 lb Tested by Hydraulic Pressure to 400 lb Date of Test 7-5-20

No. of Certificate 420 Can each boiler be worked separately yes Total Heating Surface of Boilers 5800"

Is forced draught fitted induced Area of fire grate (coal) in each Boiler 87.5" Total grate area of boilers in vessel including Main and Auxiliary Two Peabody No. and description of safety valves on each boiler 2 spring loaded each 3" dia. Area of each valve 7.06 sq" Pressure to which they are adjusted 200 lbs sq"

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

Smallest distance between boilers or uptakes and bunkers or woodwork 12' 10" Height of Boiler 12' 10" Width and Length 14' 7 3/4", 11' 7 1/8"

Steam Drums:—Number in each boiler One Inside diameter 42" Material of plates Steel Thickness 1/2"

Range of Tensile Strength 55000-65000 lb Are drum shell plates welded or flanged no Description of riveting:—
Cir. seams S.R. Loh long. seams D.R.D.B.S. Diameter of rivet holes in long. seams 29/32" Pitch of Rivets 2 1/2" x 4 1/4"

Lap of plates or width of butt straps 9 1/2" x 15" Thickness of straps 9/16" Percentage strength of long. joint:—Plate 80% Rivet 108%

Diameter of tube holes in drum 4 1/32" Pitch of tube holes 7" Percentage strength of shell in way of tubes 84.8

If Drum has a flat side state method of staying yes Depth and thickness of girders at centre (if fitted) 24.3 lb Distance apart 19 1/2" Number and pitch of stays in each 42" Working pressure by rules 24.3 lb

Size of Manhole or Handhole 15" x 11" Water Drums:—Number in each boiler no Inside Diameter no

Material of plates Steel Thickness 1/2" Range of tensile strength 55000-65000 lb Are drum shell plates welded or flanged no Description of riveting:—Cir. seams no long. seams no Diameter of Rivet Holes in long. seams no Pitch of rivets no Lap of plates or width of butt straps no Thickness of straps no

Percentage strength of long. joint:—Plate no Rivet no Diameter of tube holes in drum no Pitch of tube holes no

Percentage strength of drum shell in way of tubes no Water Drum Heads or Ends:—Material no Thickness no

Radius or how stayed no Size of manhole or handhole no Headers or Sections:—Number 24

Material Steel Thickness 9/16" Tested by Hydraulic Pressure to 500 lb Material of Stays no

Area at smallest part no Area supported by each stay no Working Pressure by Rules 289 lb Tubes:—Diameter 4"

Thickness 9. B.M.G. Number 240 Steam Dome or Collector:—Description of Joint to Shell no

Percentage strength of Joint no Diameter no Thickness of shell plates no Material no

Description of longitudinal joint no Diameter of Rivet Holes no Pitch of Rivets no Working Pressure of shell by Rules no

Crown or End Plates:—Material no Thickness no How stayed no

SUPERHEATER. Type Tube Date of Approval of Plan 7-5-20 Tested by Hydraulic Pressure to 400 lbs sq"

Date of Test 7-5-20 Is a safety valve fitted to each section of the superheater which can be shut off from the Boiler yes

Diameter of Safety Valve 1" Pressure to which each is adjusted 210 lbs sq" Is easing gear fitted no

Is a drain cock or valve fitted at lowest point of superheater plug Number, diameter, and thickness of tubes 21 tubes 2" dia. N° 9 gauge

Spare Gear. Tubes 10 Gaskets or joints:—Manhole 24 Handhole 10

The foregoing is a correct description,
The Babcock & Wilcox Co. Manufacturer.
per W. Stubbard Marine Dept.

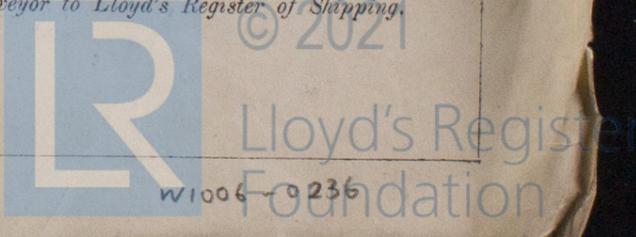
Dates of Survey } During progress of work in shops - - } 1919 Feb 10, 11, 12, 13 + 8 days until 12 May } Is the approved plan of boiler forwarded herewith
while building } During erection on board vessel - - - } Total No. of visits

GENERAL REMARKS (State quality of workmanship, opinions as to class, &c.) The workmanship and material are both of good quality, to complete the survey the boilers to be erected on board and tested by hydraulic pressure. All mountings to be examined and fitted. Safety valves to be adjusted under steam.

Survey Fee ... £ : : } When applied for, 191
Travelling Expenses (if any) £ : : } When received, 191

John Carnegie & A. Mac Watt
Engineer Surveyor to Lloyd's Register of Shipping.

Committee's Minute New York FEB -1 1921
Assigned See other N.Y. Rpt 19832



REPORT ON WATER TUBE BOILERS

These boilers together with superheaters have been installed on board the S/S "Seaward" under special survey & tested satisfactorily to 400 lbs per sq. inch hydrostatic pressure. The safety valves have been adjusted under steam to blow off at 200 lbs per sq. inch & accumulation tests carried out. Boiler mountings examined & all found in satisfactory condition.

J.L.

Rpt. 13.

Port of

No. in Reg. Book

Owners

Yard No.

DESCRIP

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Gener

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Position of

Positions of

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circuit

If vessel is

Are the fu

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B 2

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D 1

E 1

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Where are

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Main cable co

Branch cable

Branch cable

Leads to lamp

Cargo light ca

DESCRIP

B & L

office

Joints in cable

Are all the joi

positions

Are there any

How are the c

clamped



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