

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 Last Survey May 12 1917
Reg. Bk. on the S/S "SUWORDENCO" Number of Visits Gross 3548 Net 2174
Master 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
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^{sq}
Is forced draught fitted induced Area of fire grate (coal) in each Boiler 87.5^{sq}
Main and Auxiliary No. and type of burners (oil) in each boiler Two Peabody No. and description of safety valves on each boiler 2 spring loaded each 3" dia. Area of each valve 7.06^{sq}
Are they fitted with easing gear Yes In case of donkey boilers state whether steam from main boilers can enter the donkey boiler
Smallest distance between boilers or uptakes and bunkers or woodwork Height of Boiler 12' 10" Width and Length 14' 7 1/2", 11' 7 1/2"
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. L. long. seams D.R.D.B.S. Diameter of rivet holes in long. seams 29/32" Pitch of Rivets 2 1/2" & 4 1/2"
Lap of plates or width of butt straps 9 1/2" & 15" Thickness of straps 9/16" Percentage strength of long. joint:—Plate 80.1 Rivet 108.8
Diameter of tube holes in drum 4 1/2" 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 Depth and thickness of girders at centre
(if fitted) Distance apart Number and pitch of stays in each Working pressure
by rules 24.3 lb Steam Drum Heads or Ends:—Material Steel Thickness 19/32" Radius or how stayed 42"
Size of Manhole or Handhole 15" x 11" Water Drums:—Number in each boiler Inside Diameter
Material of plates Thickness Range of tensile strength Are drum shell plates welded
or flanged Description of riveting:—Cir. seams long. seams Diameter of Rivet Holes in
long. seams Pitch of rivets Lap of plates or width of butt straps Thickness of straps
Percentage strength of long. joint:—Plate Rivet Diameter of tube holes in drum Pitch of tube holes
Percentage strength of drum shell in way of tubes Water Drum Heads or Ends:—Material Thickness
Radius or how stayed Size of manhole or handhole Headers or Sections:—Number 24
Material Steel Thickness 9/16" Tested by Hydraulic Pressure to 500 lb Material of Stays
Area at smallest part Area supported by each stay Working Pressure by Rules 289 lb Tubes:—Diameter 4"
Thickness 9.8, 11.9, Number 240 Steam Dome or Collector:—Description of Joint to Shell
Percentage strength of Joint Diameter Thickness of shell plates Material
Description of longitudinal joint Diameter of Rivet Holes Pitch of Rivets Working Pressure of shell
by Rules Crown or End Plates:—Material Thickness How stayed
SUPERHEATER. Type Tube Date of Approval of Plan Tested by Hydraulic Pressure to 400 lb
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 lb 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^o 9 gauge
Spare Gear. Tubes 10 Gaskets or joints:—Manhole Handhole 24 Handhole plates 10

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

Dates of Survey During progress of work in shops - 1919 Feb 10, 11, 12, 13 & 20 & 21 until 12 May Is the approved plan of boiler forwarded herewith
while 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

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Rpt. 13.

These boilers together with superheaters have been installed on board the S/S "Suwordenco" 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.

Port of

No. in Reg. Book

Owners

Yard No.

DESCRIPTION

recip
Gener

Capacity of

Where is

Position of

Positions of

If fuses are

circuit

If vessel is

Are the fu

Are all fu

are per

Are all swi

Total numbe

A 3

B 2

C 1

D 1

E 1

2 M

2

If are lights

Where are

DESCRIPTION

Main cable co

Branch cable

Branch cable

Leads to lamp

Cargo light ca

DESCRIPTION

B & L

office

Joints in cable

Are all the joi

positions

Are there any

How are the

clamped



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