

REC'D NEW YORK MAR 12 1921

Rpt. 4.

REPORT ON MACHINERY.

20242
No. 4121
MAY 1 1921

Received at London Office

Date of writing Report 19 When handed in at Local Office 19 Port of *Philadelphia*

No. in Survey held at Date, First Survey Last Survey 19
Reg. Book. on the *S.S. "SAN UBALDO"* (Number of Visits) *6201 K.C.* Tons } Gross
Master Built at *Shorter Island N.Y.* By whom built *Standard Shipbuilding Corp* When built
Engines made at *Chester Pa* By whom made *San Shipbuilding Company* when made *1921*
Boilers made at By whom made when made
Registered Horse Power Owners Port belonging to
Nom. Horse Power as per Section 28 Is Refrigerating Machinery fitted for cargo purposes Is Electric Light fitted

ENGINES, &c.—Description of Engines *Triple Expansion* No. of Cylinders *3* No. of Cranks *3*
Dia. of Cylinders *27"-45"-74"* Length of Stroke *48"* Revs. per minute *80* Dia. of Screw shaft as per rule Material of screw shaft as fitted
Is the screw shaft fitted with a continuous liner the whole length of the stern tube Is the after end of the liner made water tight in the propeller boss If the liner is in more than one length are the joints burned If the liner does not fit tightly at the part between the bearings in the stern tube, is the space charged with a plastic material insoluble in water and non-corrosive If two liners are fitted, is the shaft lapped or protected between the liners Length of stern bush
Dia. of Tunnel shaft as per rule *13.387* Dia. of Crank shaft journals as per rule *14.056* Dia. of Crank pin *4.5* Size of Crank webs *27 1/2 x 9 1/2* Dia. of thrust shaft under collars *4.25* Dia. of screw Pitch of Screw No. of Blades State whether moveable Total surface
No. of Feed pumps Diameter of ditto Stroke Can one be overhauled while the other is at work
No. of Bilge pumps *2* Diameter of ditto *4"* Stroke *26"* Can one be overhauled while the other is at work *Yes*
No. of Donkey Engines Sizes of Pumps No. and size of Suctions connected to both Bilge and Donkey pumps
In Engine Room In Holds, &c.

No. of Bilge Injections sizes Connected to condenser, or to circulating pump Is a separate Donkey Suction fitted in Engine room & size
Are all the bilge suction pipes fitted with roses Are the roses in Engine room always accessible Are the sluices on Engine room bulkheads always accessible
Are all connections with the sea direct on the skin of the ship Are they Valves or Cocks
Are they fixed sufficiently high on the ship's side to be seen without lifting the stokehold plates Are the Discharge Pipes above or below the deep water line
Are they each fitted with a Discharge Valve always accessible on the plating of the vessel Are the Blow Off Cocks fitted with a spigot and brass covering plate
What pipes are carried through the bunkers How are they protected
Are all Pipes, Cocks, Valves, and Pumps in connection with the machinery and all boiler mountings accessible at all times
Are the Bilge Suction Pipes, Cocks, and Valves arranged so as to prevent any communication between the sea and the bilges
Is the Screw Shaft Tunnel watertight Is it fitted with a watertight door worked from

BOILERS, &c.—(Letter for record) Manufacturers of Steel
Total Heating Surface of Boilers Is Forced Draft fitted No. and Description of Boilers
Working Pressure Tested by hydraulic pressure to Date of test No. of Certificate
Can each boiler be worked separately Area of fire grate in each boiler No. and Description of Safety Valves to each boiler - Area of each valve Pressure to which they are adjusted Are they fitted with easing gear
Smallest distance between boilers or uptakes and bunkers or woodwork Mean dia. of boilers Length Material of shell plates
Thickness Range of tensile strength Are the shell plates welded or flanged Descrip. of riveting: cir. seams long. seams Diameter of rivet holes in long. seams Pitch of rivets Lap of plates or width of butt straps
Per centages of strength of longitudinal joint rivets plate Working pressure of shell by rules Size of manhole in shell
Size of compensating ring No. and Description of Furnaces in each boiler Material Outside diameter
Length of plain part top Thickness of plates crown bottom Description of longitudinal joint No. of strengthening rings
Working pressure of furnace by the rules Combustion chamber plates: Material Thickness: Sides Back Top Bottom
Pitch of stays to ditto: Sides Back Top If stays are fitted with nuts or riveted heads Working pressure by rules
Material of stays Area at smallest part Area supported by each stay Working pressure by rules End plates in steam space:
Material Thickness Pitch of stays How are stays secured Working pressure by rules Material of stays
Area at smallest part Area supported by each stay Working pressure by rules Material of Front plates at bottom
Thickness Material of Lower back plate Thickness Greatest pitch of stays Working pressure of plate by rules
Diameter of tubes Pitch of tubes Material of tube plates Thickness: Front Back Mean pitch of stays
Pitch across wide water spaces Working pressures by rules Girders to Chamber tops: Material Depth and thickness of girder at centre Length as per rule Distance apart Number and pitch of stays in each
Working pressure by rules Steam dome: description of joint to shell % of strength of joint
Diameter Thickness of shell plates Material Description of longitudinal joint Diam. of rivet holes
Pitch of rivets Working pressure of shell by rules Crown plates Thickness How stayed
SUPERHEATER. Type Date of Approval of Plan Tested by Hydraulic Pressure to
Date of Test Is a Safety Valve fitted to each Section of the Superheater which can be shut off from the Boiler
Diameter of Safety Valve Pressure to which each is adjusted Is Easing Gear fitted

002340-002351-0273

IS A DONKEY BOILER FITTED?

If so, is a report now forwarded?

SPARE GEAR. State the articles supplied:—

The foregoing is a correct description,

Robert H. H. H.

Manufacturers

of Main Engines only

Dates of Survey while building
During progress of work in shops --
During erection on board vessel ---
Total No. of visits

1920. Oct. 1. 7. 14. 22. Nov. 11. 23. 24. Dec. 6. 13. 18. 1921. Jan. 3. 11. 14. 21. March 3.

Is the approved plan of main boiler forwarded herewith

" " " donkey " " "

Dates of Examination of principal parts—Cylinders *8-12-20* Slides *11-1-21* Covers *8-12-20* Pistons *11-1-21* Rods *11-1-21*

Connecting rods *3-1-21* Crank shaft *7-10-20* Thrust shaft *6-12-20* Tunnel shafts Screw shaft Propeller

Stern tube Steam pipes tested Engine and boiler seatings Engines holding down bolts

Completion of pumping arrangements Boilers fixed Engines tried under steam

Completion of fitting sea connections Stern tube Screw shaft and propeller

Main boiler safety valves adjusted Thickness of adjusting washers

Material of Crank shaft *Steel* Identification Mark on Do. *W.C. RS* Material of Thrust shaft *Steel* Identification Mark on Do. *RS*

Material of Tunnel shafts Identification Marks on Do. Material of Screw shafts Identification Marks on Do.

Material of Steam Pipes Test pressure

Is an installation fitted for burning oil fuel Is the flash point of the oil to be used over 150° F.

Have the requirements of Section 49 of the Rules been complied with

Is this machinery duplicate of a previous case If so, state name of vessel

General Remarks (State quality of workmanship, opinions as to class, &c. *The Machinery of this Vessel has been built under Special Survey. Materials and workmanship good*

This engine has been installed in workmanlike fashion in the S.S. "San Waldo." See separate New York Report
Alex. Lawrence,
New York, April 20.

Certificate (if required) to be sent to

25 Fee Phila

The amount of Entry Fee ... £ : : When applied for,
Special ... £ : : 19
Donkey Boiler Fee ... £ *See NY Rpt* : : When received,
Travelling Expenses (if any) £ : : 19

Committee's Minute New York MAY 3 1921

igned *See NY Rpt 20242*

J. Adamson

Engineer Surveyor to Lloyd's Register of Shipping.



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