

REPORT ON MACHINERY.

No. 7

REC'D NEW YORK

June 1, 1917

Received at London Office

May 1, 1917

Date of writing Report 28 May 1917 When handed in at Local Office 28 May 1917 Port of Jacksonville Fla.
No. in Survey held at Jacksonville Fla. Date, First Survey Last Survey 19
Reg. Book. on the Iron S.S. Pedro (Number of Visits)
Master R. G. Loughlan Built at Jacksonville By whom built Merrill Stevens Co. Tons Gross 296 Net 153
Engines made at Jacksonville By whom made Merrill Stevens Co. when made 1917
Boilers made at Oswego N. Y. By whom made Kingsford & Machine Co. when made 1917
Registered Horse Power 280 Owners Boston Molasses Co Port belonging to Boston
Nom. Horse Power as per Section 28 47 Is Refrigerating Machinery fitted for cargo purposes No Is Electric Light fitted No

ENGINES, &c.—Description of Engines Compound Direct Acting No. of Cylinders 2 No. of Cranks 2
Dia. of Cylinders 10" 4 20" Length of Stroke 16" Revs. per minute 49 Dia. of Screw shaft as per rule 4 9/16" Material of screw shaft Carbon steel
Is the screw shaft fitted with a continuous liner the whole length of the stern tube No 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 22"
Dia. of Tunnel shaft as per rule 4 3/4" Dia. of Crank shaft journals as per rule 4 5/8" Dia. of Crank pin 5 1/2" Size of Crank webs Dia. of thrust shaft under
collars 5 1/2" Dia. of screw 4 8" Pitch of Screw 6-3" No. of Blades 4 State whether moveable No Total surface 10.3 #
No. of Feed pumps 2 Diameter of ditto 4" Stroke 8" Can one be overhauled while the other is at work Yes
No. of Bilge pumps 2 Diameter of ditto 2 1/2" Stroke 8" Can one be overhauled while the other is at work Yes
No. of Donkey Engines 2 Sizes of Pumps 4" x 8" No. and size of Suctions connected to both Bilge and Donkey pumps
In Engine Room One 2 1/2" Two 2" In Holds, &c. one in each tank hold. 2 1/2"

No. of Bilge Injections One sizes 4" Connected to condenser, or to circulating pump Yes Is a separate Donkey Suction fitted in Engine room & size Yes 4"
Are all the bilge suction pipes fitted with roses Yes Are the roses in Engine room always accessible Yes Are the sluices on Engine room bulkheads always accessible Yes
Are all connections with the sea direct on the skin of the ship Yes Are they Valves or Cocks Valves
Are they fixed sufficiently high on the ship's side to be seen without lifting the stokehold plates Yes Are the Discharge Pipes above or below the deep water line Above
Are they each fitted with a Discharge Valve always accessible on the plating of the vessel Yes Are the Blow Off Cocks fitted with a spigot and brass covering plate Yes
What pipes are carried through the bunkers Soil pipes How are they protected Overhead & boxed in
Are all Pipes, Cocks, Valves, and Pumps in connection with the machinery and all boiler mountings accessible at all times Yes
Are the Bilge Suction Pipes, Cocks, and Valves arranged so as to prevent any communication between the sea and the bilges Yes
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 140 lb. 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 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 Description of longitudinal joint No. of strengthening rings
bottom Thickness of plates bottom
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 End plates in steam space:
Material of stays Area at smallest part Area supported by each stay Working pressure by rules Material of stays
Material Thickness Pitch of stays How are stays secured Working pressure by rules Material of Front plates at bottom
Area at smallest part Area supported by each stay Working pressure by rules Working pressure of plate by rules
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 Valves Pressure to which each is adjusted Is Easing Gear fitted

THE SURVEYORS ARE REQUESTED NOT TO WRITE ACROSS THIS MARGIN.
If not, please write whether, and when, one will be sent.

W1237-0138

IS A DONKEY BOILER FITTED?

If so, is a report now forwarded?

SPARE GEAR. State the articles supplied:— 1 Crank shaft, 1 Connecting rod, 1 Crank pin bearing complete, 1 Crosshead bearing, 1 Crank shaft main bearing, 10 Boiler tubes, 25 Condenser tubes, 200 Condenser tube & bolts for each pump specified, 2 propellers, 1 set of piston packing for each engine, 2 Main Bearing bolts, as per copy of bill.

The foregoing is a correct description,

Myrtle Street Co.
By Asst. Manager

Manufacturer.

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

Is the approved plan of main boiler forwarded herewith *Yes*

Dates of Examination of principal parts—Cylinders *26 March* Slides *26 March* Covers *26th March* Pistons *26 Mar* Rods *26 March*
 Connecting rods *26 Mar* Crank shaft *26 March* Thrust shaft *26 March* Tunnel shafts *29th Mar* Screw shaft *29th Mar* Propeller *26 April*
 Stern tube *29th Mar* Steam pipes tested *24 Apr* Engine and boiler seatings *26th Mar* Engines holding down bolts *26th Mar*
 Completion of pumping arrangements *18th Apr* Boilers fixed *10th Apr* Engines tried under steam *26 Apr*
 Completion of fitting sea connections *18th Apr* Stern tube *26th April* Screw shaft and propeller *26 April*
 Main boiler safety valves adjusted *27th April* Thickness of adjusting washers
 Material of Crank shaft *Steel* Identification Mark on Do. Material of Thrust shaft *Steel* Identification Mark on Do.
 Material of Tunnel shafts *✓* Identification Marks on Do. *✓* Material of Screw shafts *Steel* Identification Marks on Do.
 Material of Steam Pipes *Copper* Test pressure *210 lbs.*

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. *This vessel machinery has been built under survey and in accordance with the Rules. The material and workmanship are good and in our opinion the vessel is eligible for the Record F.L.M.C. 5.17*

It is submitted that
 this vessel is eligible for
 THE RECORD. + L.M.C. 5.17.

J.W.D.
20/7/17

The amount of Entry Fee ... *\$5* : : When applied for,
 Special ... *\$30* : : *12. 6. 1917*
 Donkey Boiler Fee *N.Y.* *\$28* : : When received,
 Travelling Expenses (if any) *20* : : *27/10/17*

R. S. M. A. Hugh Boyle & H. F. Brown Acting Secy.
 Engineer Surveyor to Lloyd's Register of Shipping.

Committee's Minute *New York JUN 12 1917*

Assigned

+ Lmb 5.17

MACHINERY CERTIFICATE
 WRITTEN. 16.7.17



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 Foundation