

# REPORT ON MACHINERY.

No. 4264

Received at London Office

31 OCT 1927

Report 14<sup>th</sup> Oct. 1927 When handed in at Local Office 14<sup>th</sup> Oct. 1927 Port of Newport News, Va.  
Survey held at Norfolk, Va. Date, First Survey 28<sup>th</sup> Sept. Last Survey 12<sup>th</sup> Oct. 1927  
(Number of Visits)

on the Steel Screw Steamer CERRO GARDO

Builder Built at Duluth, Minn. By whom built McDougall Duluth Co. Tons Gross 2323 Net 1394 When built 1919

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Horse Power Owners Hammond Lumber Company Port belonging to San Francisco

Power as per Section 28 262 Is Refrigerating Machinery fitted for cargo purposes No. Is Electric Light fitted Yes

Engines Description of Engines Triple Expansion Surface Condensing No. of Cylinders 3 No. of Cranks 3  
Cylinders 20"-33"-54 Length of Stroke 40" Revs. per minute 85 Dia. of Screw shaft as per rule 11.64 as fitted 11.716 Material of screw shaft Steel

Shaft fitted with a continuous liner the whole length of the stern tube Yes Is the after end of the liner made water tight

Boiler boss Yes If the liner is in more than one length are the joints burned If the liner does not fit tightly at the part

bearings in the stern tube, is the space charged with a plastic material insoluble in water and non-corrosive If two

fitted, is the shaft lapped or protected between the liners Length of stern bush 4'-0 3/4"

Shaft as per rule 10.49 as fitted 10 1/2 Dia. of Crank shaft journals as per rule 11 1/2 as fitted 11 1/2 Dia. of Crank pin 11 3/4 Size of Crank webs 21 x 7 1/2 Dia. of thrust shaft under

1" Dia. of screw 14-0 Pitch of Screw 12-5 No. of Blades 4 State whether moveable No Total surface 64 sq ft

Cond pumps 2 Diameter of ditto 3 1/4 Stroke 20 Can one be overhauled while the other is at work Yes

Oil pumps 2 Diameter of ditto 4 1/2 Stroke 20 Can one be overhauled while the other is at work Yes

Donkey Engines 2 Sizes of Pumps 10 x 6 x 12 7 x 9 x 7 No. and size of Suctions connected to both Bilge and Donkey pumps

Engine Room 4-3 One Tunnel Well 3 In Holds, &c. Forward Hold 2-3

Injections One size 6 Connected to condenser or to circulating pump Yes Is a separate Donkey Suction fitted in Engine room & size Yes 3"

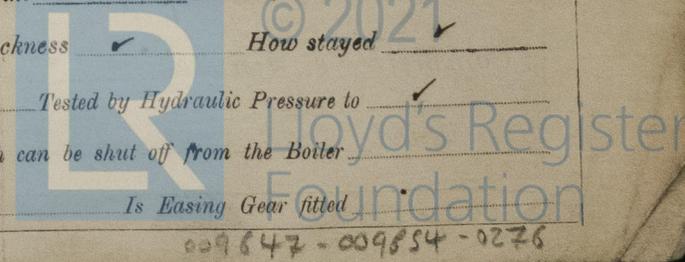
Bilge suction pipes fitted with roses Yes Are the roses in Engine room always accessible Yes Are the sluices on Engine room bulkheads always accessible

Connections with the sea direct on the skin of the ship Yes Are they Valves or Cocks Both

Discharge pipes 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

Discharge pipes 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

How are they protected None



IS A DONKEY BOILER FITTED?

No. ✓

If so, is a report now forwarded? ✓

SPARE GEAR. State the articles supplied:— One C.I. Propeller. One set of top and bottom brasses. Two top end bolts and nuts. Two bottom end bolts and nuts. Two main bearing bolts + nuts. Piston rings for H.P. + L.P. Pistons. 1 Set of Feed and Bilge Pump Valves for attached Pumps. 1 Set of valves and seats for independent and auxiliary feed Pump + Bilge Pumps. Bolts and nuts of assorted sizes etc. ✓

The foregoing is a correct description,

Manufacturer.

Dates of Survey while building { During progress of work in shops -- Sept. 28, 29. During erection on board vessel -- Oct. 4, 5, 6, 8, 11, 12. Total No. of visits

Is the approved plan of main boiler forwarded herewith

“ “ “ donkey “ “ “

Dates of Examination of principal parts—Cylinders Slides Covers Pistons Rods Connecting rods Crank shaft Thrust shaft 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. Material of Thrust shaft Steel Identification Mark on Do. Material of Tunnel shafts Steel Identification Marks on Do. Material of Screw shafts Steel Identification Marks on Do. Material of Steam Pipes Steel tubing ✓ Test pressure ✓ Is an installation fitted for burning oil fuel No. ✓ 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 Yes ✓ If so, state name of vessel S/S Francis Weems "Chapbell Chamblee"

General Remarks (State quality of workmanship, opinions as to class, &c.)

The engines and boilers of this vessel were built under the survey of American Bureau of Shipping and the materials tested in accordance with their Rules. They are of good design and the workmanship good and efficient. The boilers have been examined internally and found in good condition. They were subjected to a hydraulic test of 285 lbs per sq. in. and found tight and all boiler mountings were examined and found in good order. The scan of the boilers compared with the blue prints and found to agree. The safety valves adjusted to blow at 190 lbs per sq. in. The main engine auxiliary machinery, stem steering gear and windlass engine tested under steam and found to be in good working order. Main engine + boiler fastenings examined and found efficient.

The case is respectfully submitted for the notation of L.M.C. 10 Propeller shaft seen 10-27 in the Register Book

The amount of Entry Fee ... ✓ : : When applied for, Special ... \$ 250 - : : 14/10/1927 Donkey Boiler Fee ... ✓ : : When received, Travelling Expenses (if any) ✓ : : 10/11/27 R.P.M.

For C. J. Hudson H.G. House Engineer Surveyor to Lloyd's Register of Shipping

FRI. 20 JAN 1928

FRI. 11 MAY 1928

Committee's Minute NEW YORK OCT 19 1927

Assigned See form Rpt. 9 attached



Hammond Lumber Co., San Francisco, Cal.

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