

REPORT ON MACHINERY.

No. 4869

DEC. 23. 1919

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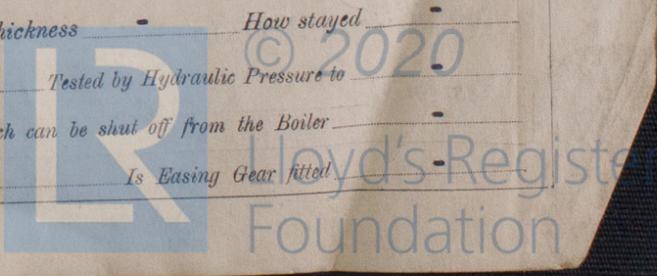
of writing Report **Nov. 1st. 1919** When handed in at Local Office **19** Port of **Hong Kong**
 in Survey held at **Hong Kong** Date, First Survey **Oct. 1st. 1918** Last Survey **Oct. 27th. 1919**
 g. Book. (Number of Visits **52**)
 on the **Steel Single Screw Steamer "STATHIS" ex "WAR MINER"** Tons { Gross **5126.57**
 Net **3220.01**
 Master **N. Pochas** Built at **Hong Kong** By whom built **Taikoo Dockyard & Eng. Co. Ld.** When built **1919**
 Engines made at **Hong Kong** By whom made **Taikoo Dockyard & Eng. Co. Ld.** when made **1919**
 Milers made at **Hong Kong** By whom made **Taikoo Dockyard & Eng. Co. Ld.** when made **1919**
 Registered Horse Power Owners **Evangelos E. Ambatielos** Port belonging to **Argostoli**
 ex **The Shipping Controller.**
 m. Horse Power as per Section 28 **516.4517** Is Refrigerating Machinery fitted for cargo purposes **No** Is Electric Light fitted **Yes**

GINES, &c.—Description of Engines **Triple Surface Condensing** No. of Cylinders **3** No. of Cranks **3**
 Dia. of Cylinders **27", 44", 73"** Length of Stroke **48"** Revs. per minute **85** Dia. of Screw shaft as per rule **14.7"** Material of screw shaft **Steel**
 as fitted **15 1/2"**
 Is the screw shaft fitted with a continuous liner the whole length of the stern tube **Yes** Is the after end of the liner made water tight
 the propeller 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
 near the bearings in the stern tube, is the space charged with a plastic material insoluble in water and non-corrosive **Yes** If two
 shafts are fitted, is the shaft lapped or protected between the liners **-** Length of stern bush **5'-0 1/2"**
 Dia. of Tunnel shaft as per rule **13.33"** Dia. of Crank shaft journals as per rule **14"** Dia. of Crank pin **14.5"** Size of Crank webs **4x4x** Dia. of thrust shaft under
 as fitted **13.5** as fitted **14.5**
 Dia. of screw **17.6"** Pitch of Screw **16.6"** No. of Blades **4** State whether moveable **No** Total surface **98.2 sq. dt.**
 of Feed pumps **2** Diameter of ditto **4"** Stroke **24"** Can one be overhauled while the other is at work **Yes**
 of Bilge pumps **2** Diameter of ditto **4"** Stroke **24"** Can one be overhauled while the other is at work **Yes**
 of Donkey Engines **4** Cir. Bal. Sizes of Pumps **Gen. 7x9 1/2 x 18** No. and size of Suctions connected to both Bilge and Donkey pumps
 Engine Room **2 - Port 3 1/2", Starb. 3 1/2"** In Holds, &c. **Fore hold P&S 3 1/2"; Fore Main hold P&S 3 1/2"**
 Berth Bunkers **P&S 3 1/2"; Stokehold P&S 3 1/2"; Aft Main hold P&S 3 1/2"; Aft hold 3 1/2"; Tunnel Well 3 1/2"**
 of Bilge Injections **1** sizes **12"** Connected to condenser, or to circulating pump **Cir. Pp** Is a separate Donkey Suction fitted in Engine room & size **Yes, 3 1/2"**
 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 **None**
 all connections with the sea direct on the skin of the ship **Yes** Are they Valves or Cocks **Both**
 are they sized 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 **below**
 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**
 are the pipes carried through the bunkers **Fore & Fore main hold bilge** How are they protected **Limber boards**
 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 **Yes** Is it fitted with a watertight door **Yes** worked from **Upper Deck**

BOILERS, &c.—(Letter for record -) Manufacturers of Steel
 Heating Surface of Boilers **7668** Is Forced Draft fitted **Yes** No. and Description of Boilers **3 Single Ended Marine Type**
 Working Pressure **180 lbs.** Tested by hydraulic pressure to **360** Date of test **1- 22/9/19** No. of Certificate **469,470,471**
 Can each boiler be worked separately **Yes** Area of fire grate in each boiler **63.3 sq. ft.** No. and Description of Safety Valves to
 boiler **3 1/2" Double spring** Area of each valve **9.62** (Pressure to which they are adjusted **180 lbs.** Are they fitted with easing gear **Yes**
 loaded
 Least distance between boiler uptakes and bunkers **15"** Mean dia. of boilers **15' 7 1/4"** Length **11' 6"** Material of shell plates **Steel**
 Thickness **1 1/2"** Range of tensile strength **28-32 tons** Are the shell plates welded or flanged **No** Descrip. of riveting: cir. seams **Double lap**
 seams **Treble butt** Diameter of rivet holes in long. seams **1, 5/16"** Pitch of rivets **9 1/8"** Lap of plates or width of butt straps **19 1/2"**
 Percentages of strength of longitudinal joint rivets **88.3 %** Working pressure of shell by rules **181.5 lbs.** Size of manhole in shell **None**
 plate **85.6 %**
 of compensating ring **-** No. and Description of Furnaces in each boiler **3 Deighton** Material **Steel** Outside diameter **4' 2, 3/16"**
 Thickness of plain part top **6 1/2"** Thickness of plates crown **19** Description of longitudinal joint **Welded** No. of strengthening rings **None**
 bottom **8"** bottom **32**
 Working pressure of furnace by the rules **188.1** Combustion chamber plates: Material **Steel** Thickness: Sides **23/32"** Back **11/16"** Top **23/32"** Bottom **23/32"**
 No. of stays to ditto: Sides **9 1/2 x 10 1/2"** Back **8 1/2 x 10 1/2"** Top **9 1/2 x 10 1/2"** If stays are fitted with nuts or riveted heads **Nuts & caulked** Working pressure by rules **180 lbs.**
 Material of stays **Steel** Area at smallest part **2.395** Area supported by each stay **S. 99.22** Working pressure by rules **B. 237** Easing plates in steam space:
 Material **Steel** Thickness **1, 11/32"** Pitch of stays **21 1/2"** How are stays secured **Nuts & washers** Working pressure by rules **180.8** Material of stays **Steel**
 at smallest part **8.29** Area supported by each stay **473** Working pressure by rules **182.2** Material of Front plates at bottom **Steel**
 Thickness **7/8"** Material of Lower back plate **Steel** Thickness **27/32"** Greatest pitch of stay **1 3/8" x 8 1/2"** Working pressure of plate by rules **187.6 lbs.**
 Diameter of tubes **2 1/2" x 4"** Pitch of tubes **3 7/8" x 4"** Material of tube plates **Steel** Thickness: Front **31/32"** Back **3/4"** Mean pitch of stays **8" x 11 1/2"**
 Distance across wide water spaces **13 1/2"** Working pressures by rules **181 lbs.** Girders to Chamber tops: Material **Steel** Depth and
 Thickness of girder at centre **10" x 7 1/2"** (2) Length as per rule **35, 9/16"** Distance apart **10 5/8"** Number and pitch of stays in each **3 - 9 1/4"**
 Working pressure by rules **187.6 lbs.** Is dome: description of joint to shell **None** % of strength of joint **-**
 Material **-** Thickness of shell plates **-** Material **-** Description of longitudinal joint **-** Diam. of rivet holes **-**
 of rivets **-** Working pressure of shell by rules **-** Crown plates **-** Thickness **-** How stayed **-**
 Tested by Hydraulic Pressure to **-**

SUPERHEATER. Type **-** Date of Approval of Plan **-** Is a Safety Valve fitted to each Section of the Superheater which can be shut off from the Boiler **-**
 of Test **-** Pressure to which each is adjusted **-** Is Easing Gear fitted **-**

W71-0298



IS A DONKEY BOILER FITTED? No If so, is a report now forwarded?

SPARE GEAR. State the articles supplied:— See list attached.

The foregoing is a correct description, FOR THE FAIRHOO DOCKYARD & ENGINEERING COMPANY, OF HONGKONG LIMITED.

J. Reid Manufacturer.

1918 Oct. 1, 3, 15, 18, 22, 29, Nov. 8, 12, 15, 19, 26, Dec. 3, 6, 10, 13, 17, 24. 1919 Jan. 3, 7, 10, 28 Feb. 18, 21, 28, Mar. 7, 18, Apr. 17, May 9, 13, 26, June 17, 27 Jul. 3, 16, 22. Aug. 6, 7, 21, 29, Sept. 12, 18, 20, 22. Oct. 1, 3, 7, 9, 13, 14, 18, 21, 27. Sept. 12, 22 Oct. 1, 3, 9, 13, 14, 18, 21, 27. Total No. of visits 52

Is the approved plan of main boiler forwarded herewith " " " donkey " " "

Dates of Examination of principal parts—Cylinders 18/2/19 Slides 28/1/19 Covers 24/12/18 Pistons 24/12/18 Rods 22/7/19 Connecting rods 28/2/19 Crank shaft 28/1/19 Thrust shaft 16/7/19 Tunnel shafts 16/7/19 Screw shaft 13/5/19 Propeller 13/5/19 Stern tube 10/1/19 Steam pipes tested 7/10/19 Engine and boiler seating 3/10/19 Engines holding down bolts 18/9/19 Completion of pumping arrangements 9/10/19 Boilers fixed 3/10/19 Engines tried under steam 9/10/19 Completion of fitting sea connections 6/8/19 Stern tube 6/8/19 Screw shaft and propeller 7/8/19 Main boiler safety valves adjusted 9/10/19 Thickness of adjusting washers P.Br.S. 3/16" C.S. 3/16" S. S. 3/16"

Material of Crank shaft Steel Identification Mark on Do. 161 HKg Material of Thrust shaft Steel Identification Mark on Do. 183 HKg Material of Tunnel shafts Steel Identification Marks on Do. 184 HKg. Material of Screw shafts Steel Identification Marks on Do. 172 HKg Material of Steam Pipes Steel Test pressure 550 lbs.

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. "EVANGELOS" ex "WAR DRIVE" Rpt. 469

General Remarks (State quality of workmanship, opinions as to class, &c. The workmanship is good and it is recommended that the vessel be classed with Lloyd's Machinery Certificate and the record of L.M.C. 10, 1919 made in the Register Book.

Since this vessel was completed she has been sold to Greek Owner Mr. Evangelos E. Ambatielos of Argostoli.

The approved Boiler plan of this vessel is now in London Office.

It is submitted that this vessel is eligible for THE RECORD. + L.M.C. 10-19 FD

IDENTIFICATION MARKS ON BOILERS

Table with 3 columns: No. 86 HKg. LLOYD'S TEST 360 lbs. W.P. 180 lbs. 18-9-19 T.S.M.; No. 87 HKg. LLOYD'S TEST 360 lbs. W.P. 180 lbs. 18-9-19 T.S.M.; No. 88 HKg. LLOYD'S TEST 360 lbs. W.P. 180 lbs. 22-9-19 T.S.M.

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

The amount of Entry Fee ... \$ 30.00 : When applied for, 27/10 1919 Special Electric Light ... \$ 460.00 : Donkey Boiler Fee ... \$ 50.00 : Travelling Expenses (if any) \$ 350.00 : When received, 1/11 1919

J. S. Morrison Engineer Surveyor to Lloyd's Register of Shipping

Committee's Minute

Assigned

TUE 30 DEC 1919 + L.M.C. 10-19 F.D.

