

Rpt. 4.

REPORT ON MACHINERY.

No. 4844

Received at London Office

Date of writing Report **Sept. 6th, 1919** When handed in at Local Office **19** Port of **Hong Kong**
 No. in Survey held at **Hong Kong** Date, First Survey **3/10/18** Last Survey **Sept. 1st, 1919**
 Reg. Book. **on the Steel Single Screw Steamer "EVANGELOS" ex "WAR DRIVER"** (Number of Visits **54**)
 Master **Built at Hong Kong** By whom built **Taikoo Dockyard & Engineering Co. Ltd.** When built **1919**
 Engines made at **Hong Kong** By whom made **Taikoo Dockyard & Engineering Co. Ltd.** when made **1919**
 Boilers made at **Hong Kong** By whom made **Taikoo Dockyard & Engineering Co. Ltd.** when made **1919**
 Registered Horse Power **Owners Evangelos E. Ambatieclos** Port belonging to **Argostoli**
 Nom. Horse Power as per Section 28 **516.4 517** 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 **81** Dia. of Screw shaft **14.7"** Material of screw shaft **Steel**
 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
 between the bearings in the stern tube, is the space charged with a plastic material insoluble in water and non-corrosive **Yes** If two
 liners are fitted, is the shaft lapped or protected between the liners **-** Length of stern bush **5'-0 1/2"**
 Dia. of Tunnel shaft **13.33"** Dia. of Crank shaft journals **14"** Dia. of Crank pin **14.5"** Size of Crank webs **4x4x** Dia. of thrust shaft under
 bars **14 1/2"** Dia. of screw **17.6"** Pitch of Screw **16.6"** No. of Blades **4** State whether moveable **No** Total surface **98.2 sq. ft.**
 No. of Feed pumps **2** Diameter of ditto **4"** Stroke **24"** Can one be overhauled while the other is at work **Yes**
 No. of Bilge pumps **2** Diameter of ditto **4"** Stroke **24"** Can one be overhauled while the other is at work **Yes**
 No. of Donkey Engines **4** Ballast Sizes of Pumps **Gen. 7x9x18, Cir. 12"** No. and size of Suctions connected to both Bilge and Donkey pumps
 Engine Room **2 - Port 3 1/2", Starb. 3 1/2"** Bal. **10 1/2 x 14 x 24** In Holds, &c. Fore hold P&S **3 1/2"**, Fore Main hold P&S **3 1/2"**
 Curve 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"**
 No. of Bilge Injections **1** sizes **12"** Connected to condenser, or to circulating pump **Cir. PPs** a separate Donkey Suction fitted in Engine room & size **Yes, 3 1/2"**
 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 **None**
 Are all connections with the sea direct on the skin of the ship **Yes** Are they Valves or Cocks **Both**
 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 **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 all pipes carried through the bunkers **Fore & Fore main hold bilge** How are they protected **Limber boards**
 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 **Yes** Is it fitted with a watertight door **Yes** worked from **Upper Deck**

CLERS, &c.—(Letter for record - (S) Manufacturers of Steel **Carnegie Steel Co.**

al 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 **7/7/19** No. of Certificate **457, 458, 459**
 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**
 least distance between boilers or uptakes and bunkers or woodwork **15"** Mean dia. of boilers **15' 7 1/2"** 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"** Length of plates on 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%** No. and Description of Furnaces in each boiler **3 Deighton** Material **Steel** Outside diameter **4' 2 3/16"**
 Thickness of plates **19"** Description of longitudinal joint **Welded** No. of strengthening rings **None**
 Working pressure of furnace by the rules **188.1** Combustion chamber plates: Material **Steel** Thickness: Sides **23"** Back **11"** Top **23"** Bottom **23"**
 No. of stays to ditto: Sides **9 1/4 x 10 1/8"** Back **8 1/4 x 10 1/4"** Top **9 1/4 x 10 1/8"** If stays are fitted with nuts or riveted heads **Nuts &** Working pressure by rules **180 lbs.**
 Material of stays **Steel** Area at smallest part **2.395** Area supported by each stay **B. 90.81** Working pressure by rules **S. 217** End plates in steam space:
 Material **Steel** Thickness **1 11/32"** Pitch of stays **21 1/4"** How are stays secured **Nuts &** 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 **3/8"** Material of Lower back plate **Steel** Thickness **27/32"** Greatest pitch of stays **13 1/8 x 8 1/4"** Working pressure of plate by rules **187.6 lbs.**
 Diameter of tubes **2 1/4 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 1/8"**
 across wide water spaces **13 1/8"** Working pressures by rules **181 lbs.** Girders to Chamber tops: Material **Steel** Depth and
 thickness of girder at centre **10" x 3 1/2"** Length as per rule **35 9/16"** Distance apart **10 1/8"** Number and pitch of stays in each **3, - 9 1/4"**
 Working pressure by rules **187.6 lbs.** Is steam 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 **-**
 No. of rivets **-** Working pressure of shell by rules **-** Crown plates **-** Thickness **-** How stayed **-**

REHEATER. 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 **-**

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IS A DONKEY BOILER FITTED?

No

If so, is a report now forwarded?

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

The foregoing is a correct description,
COMPANY, OF HONGKONG LIMITED.

J. Red
BOCKYARD MANAGER.

Manufacturer.

Dates of Survey while building
During progress of work in shops -- 1918 Oct. 3, 5, 18, 22, 25, 29. Nov. 1, 5, 8, 15, 19, 22, 26, 27. Dec. 3, 6, 10, 13, 17, 24.
During erection on board vessel -- 17, Jul. 3, 7, 31. Jun. 17, 27 July 1, 3, 7, 22, 28, 31, Aug. 4, 19, 29, and Sept. 1st.
Total No. of visits 54

Is the approved plan of main boiler forwarded herewith -

Dates of Examination of principal parts—Cylinders 27/11/18 Slides 28/1/19 Covers 24/12/18 Pistons 24/12/18 Rolls 18/3/19
Connecting rods 28/2/19 Crank shaft 28/1/19 Thrust shaft 28/1/19 Tunnel shafts 13/5/19 Screw shaft 7/5/19 Propeller 9/5/19
Stern tube 10/1/19 Steam pipes tested 31/7/19 Engine and boiler seatings 17/6/19 Engines holding down bolts 17/6/19
Completion of pumping arrangements 4/8/19 Boilers fixed 19/8/19 Engines tried under steam 19/8/19
Completion of fitting sea connections 9/5/19 Stern tube 9/5/19
Main boiler safety valves adjusted 19/8/19 Thickness of adjusting washers Pt. Br. P. 5/16, S. 7/32"
Material of Crank shaft Steel Identification Mark on Do. 159 HKg Material of Thrust shaft Steel Identification Mark on Do. 160 HKg.
Material of Tunnel shafts Steel Identification Marks on Do. 171 HKg Material of Screw shafts Steel Identification Marks on Do. 170 HKg.
Material of Steam Pipes Solid drawn 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 -

If so, state name of vessel -

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. 9, 1919 be made in the Register Book.

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

IDENTIFICATION MARKS ON BOILERS

No. 74 HKg. LLOYD'S TEST 360 lbs. 7-7-19 T.S.M.	No. 75 HKg. LLOYD'S TEST 360 lbs. 7-7-19 T.S.M.	No. 76 HKg. LLOYD'S TEST 360 lbs. 7-7-19 T.S.M.
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It is submitted that
this vessel is eligible for
THE RECORD + LMC 9. 19. F.D.

J.W.D.
4/11/19
J.R.

The amount of Entry Fee ... \$ 40.00

Special ... \$ 613.00

Travelling Expenses (if any) ... \$ 50.00

When applied for, 1/9 1919

When received, 6/10 1919

Committee's Minute

Assigned

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



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