

REPORT ON MACHINERY.

No. 4869

DEC. 23. 1919

Received at London Office

of writing Report Nov. 1st. 1919 When handed in at Local Office

19 Port of Hong Kong

in Survey held at Hong Kong
g. Book.

Date, First Survey Oct. 1st. 1918 Last Survey Oct. 27th. 1919

(Number of Visits 52)

on the Steel Single Screw Steamer "STATHIS" ex "WAR MINER"

Gross 5126.57
Net 3220.01

Master N. Pochas Built at Hong Kong By whom built Taikoo Dockyard & Eng. Co. Ltd. When built 1919

Engines made at Hong Kong By whom made Taikoo Dockyard & Eng. Co. Ltd. when made 1919

Motors made at Hong Kong By whom made Taikoo Dockyard & Eng. Co. Ltd. when made 1919

Registered Horse Power Owners Evangelos E. Ambatielos Port belonging to Argostoli

Net 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 Steel
as fitted 15 1/2" screw shaft
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
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"
Diameter 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" 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"
erve 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
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
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
at pipes are carried through the bunkers Fore & Fore main hold bilge How are they protected Limber boards
suctions
all Pipes, Cocks, Valves, and Pumps in connection with the machinery and all boiler mountings accessible at all times Yes
the Bilge Suction Pipes, Cocks, and Valves arranged so as to prevent any communication between the sea and the bilges Yes
the Screw Shaft Tunnel watertight Yes Is it fitted with a watertight door Yes worked from Upper Deck

TERS, &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
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 loaded Area of each valve 9.62 (Pressure to which they are adjusted 180 lbs. Are they fitted with easing gear Yes
least distance between boiler uptakes and bunkers on each side 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% plate 85.6% Working pressure of shell by rules 181.5 lbs. Size of manhole in shell None
of compensating ring - No. and Description of Furnaces in each boiler 3 Deighton Material Steel Outside diameter 4' 2, 3/16"
th of plain part top 6 1/2" bottom 8" Thickness of plates crown 19 bottom 32 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 23/32" Back 11/16" Top 23/32" Bottom 23/32"
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 & caulked Working pressure by rules 180 lbs.
Material of stays Steel Area at smallest part 2.395 Area supported by each stay 8.99-22.5 S. 217 lbs. End 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 13 1/2 x 8 1/2 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 1/2"
across wide water spaces 13 1/2" (off) Working pressures by rules 181 lbs. Girders to Chamber tops: Material Steel Depth and
thickness of girder at centre 10" x 7" (2 Length as per rule 35, 9/16 Distance apart 10 1/2 Number and pitch of stays in each 3 - 9 1/4
Working pressure by rules 187.6 lbs. dome: description of joint to shell None % of strength of joint -
diameter - 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 -
ERHEATER. Type - Date of Approval of Plan - Tested by Hydraulic Pressure to -
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 list attached.

The foregoing is a correct description,

FOR THE PAIKOO DOCKYARD & ENGINEERING
COMPANY, OF HONGKONG LIMITED.

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

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.

The amount of Entry Fee ... \$ 30.00

Electric Light ... \$ 460.00

Donkey Boiler Fee ... \$ 50.00

Travelling Expenses (if any) \$ 350.00

When applied for,

27/10 1919

When received,

1/11 1919

Committee's Minute

Assigned

TUE 30 DEC 1919

L.M.C. 10-19
F.D.

Engineer Surveyor to Lloyd's Register of Shipping

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Lloyd's Register
Foundation