

# REPORT ON MACHINERY.

Received at London Office

Date of writing Report Dec. 20th. 1919 When handed in at Local Office 19 Port of Hong Kong

No. in Survey held at Hong Kong Date, First Survey 18/10/18 Last Survey Dec. 12th. 1919  
Reg. Book. (Number of Visits 50)

on the Steel Single Screw Steamer "AMBATIELOS" ex "WAR TROOPER" Tons Gross 5084.52 Net 3303.12  
Master L. Lefcokilos Built at Hong Kong By whom built Hong Kong & Whampoa Dock Co. L. When built 1919

Engines made at Hong Kong By whom made Hong Kong & Whampoa Dock Co. Ld. when made 1919

Boilers made at Hong Kong By whom made Hong Kong & Whampoa Dock Co. Ld. when made 1919

Registered Horse Power Owners Evangelos E. Ambatielos Port belonging to Argostoli  
ex The Shipping Controller

Nom. Horse Power as per Section 28 516.4 517. Is Refrigerating Machinery fitted for cargo purposes No Is Electric Light fitted Yes

ENGINES, &c.—Description of Engines Triple Expansion Inverted Cylinder No. of Cylinders 3 No. of Cranks 3  
Surface Condensing

Dia. of Cylinders 27", 44", 73" Length of Stroke 48" Revs. per minute 81 Dia. of Screw shaft as per rule 14.7" Material of steel  
as fitted 15.5" screw shaft

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  
in 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 as per rule 13.33" Dia. of Crank shaft journals as per rule 14" Dia. of Crank pin 14 1/2" Size of Crank webs 4x4x Dia. of thrust shaft under  
as fitted 13.5" as fitted 14 1/2"

collars 14 1/2" Dia. of screw 17'6" Pitch of Screw 16'-10" 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 Feed. Cir. Diameter of ditto 4" Stroke 24" Can one be overhauled while the other is at work Yes

No. of Donkey Engines 4 Gen. Bal. Sizes of Pumps Gen. 7x9 1/2 x 18 Cir. 12" No. and size of Suctions connected to both Bilge and Donkey pumps  
In Engine Room 2 Port 3 1/2", Starb. 3 1/2" Bal. 10 1/2 x 14 x 24

In Holds, &c. For Hold P&S 3 1/2"; For main hold P&S 3 1/2";  
Reserve Bunker 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".

No. 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"

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

What pipes are carried through the bunkers Fore & Fore Main Hold Bilge Suctions 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

BOILERS, &c.—(Letter for record -S) Manufacturers of Steel U.S.A. Steel Products Co. 3.S.B

Total 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 lbs. Date of test 1- 23/11/19 No. of Certificate 477, 478, 479

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  
each boiler 3 1/2" Double Spring Area of each valve 9.6211 Pressure to which they are adjusted 180 lbs. Are they fitted with easing gear Yes

Smallest 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 Ble. Lap

long. seams Tre. butt Diameter of rivet holes in long. seams 1, 5/16" Pitch of rivets 9 1/8" Top of plates or width of butt straps 19 1/2"

Per centages 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%

Size of compensating ring None No. and Description of Furnaces in each boiler 3 Deighton Material Steel Outside diameter 4'2, 3/16"

Length of plain part top 6 1/2" Thickness of plates crown 19/32 Description of longitudinal joint Welded No. of strengthening rings None  
bottom 8"

Working pressure of furnace by the rule 188.1 lbs. Combustion chamber plates: Material Steel Thickness: Sides 23/32" Back 11/16" Top 23/32" Bottom 23/32"

Pitch 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 & Working pressure by rules 180 lbs  
Material of stays Steel Area at smallest part 2.395 Area supported by each stay 8.99.22 caulked S. 217 lbs.  
T. 99.22 Working pressure by rules B. 237 End plates in steam space:  
T. 217

Material Steel Thickness 1, 11/32" Pitch of stays 21 1/2" How are stays secured Nuts & washers Working pressure by rules 180.8 lbs Material of stays Steel

Area 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 5/8" Material of Lower back plate Steel Thickness 27/32" Greatest pitch of stays 13 5/8" x 8 1/2" Working pressure of plate by rules 187.6 lbs

Diameter of tubes 2 1/2-4" 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"  
W.W. space

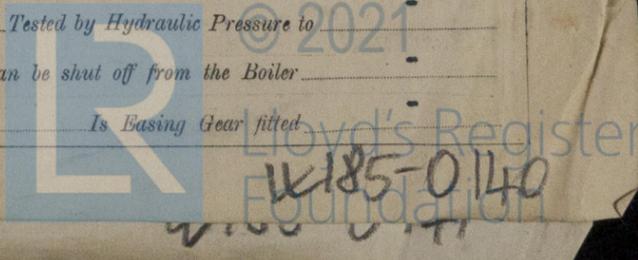
Pitch across wide water spaces 13 5/8" Working pressures by rules 181 lbs. Girders to Chamber tops: Material Steel Depth and  
thickness of girder at centre 10" x 7 1/2" (2off) length as per rule 35, 9/16" Distance apart 10 5/8" Number and pitch of stays in each 3, - 9 1/2"

Working pressure by rules 187.6 lbs Steam 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 -

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 Valve - Pressure to which each is adjusted - Is Easing Gear fitted -



IS A DONKEY BOILER FITTED? No

If so, is a report now forwarded? -

SPARE GEAR. State the articles supplied: - See List attached

HONGKONG & WHAMPOA DOCK Co., Ltd.  
The foregoing is a correct description,

R.M. Dyer  
Chief Manager

Manufacturer.

Dates of Survey while building	During progress of work in shops --	1918 Oct. 18, 28. Nov. 16. Dec. 10, 14, 16, 18, 28.
		1919 Jan. 9, 28. Feb. 8. Mar. 1, 10, 17, 29. June 4, 16 July 16. Aug. 2,
		21, 26, 30 Sept. 2, 10, 12, 16, 19, 22, 27, 29 Oct. 1, 2, 6, 11, 13, 27, 31 Nov. 5, 8, 12, 17, 2
		25, 27, 28. Dec. 5, 6, 10 and 12th.
	During erection on board vessel ---	Oct. 31, Nov. 12, 20, 27 Dec. 6, 10, 12th.
	Total No. of visits	50

Is the approved plan of main boiler forwarded herewith No

" " " donkey " " " "

Dates of Examination of principal parts—Cylinders 19/9/19 Slides 19/9/19 Covers 19/9/19 Pistons 19/9/19 Rods 19/9/19

Connecting rods 18/12/18 Crank shaft 19/9/19 Thrust shaft 2/9/19 Tunnel shafts 2/9/19 Screw shaft 19/9/19 Propeller 19/9/19

Stern tube 19/9/19 Steam pipes tested 5/12/19 Engine and boiler seatings 31/10/19 Engines holding down bolts 20/11/19

Completion of pumping arrangements 6/12/19 Boilers fixed 6/12/19 Engines tried under steam 6/12/19

Completion of fitting sea connections 27/9/19 Stern tube 22/9/19 Screw shaft and propeller 2/10/19

Main boiler safety valves adjusted 6/12/19 Thickness of adjusting washers Pt.Br. S.13/32"; C.B. S.13/32 S.B.S. P.13/32"

Material of Crank shaft Steel Identification Mark on Do. 718 J.E. Lloyd's Material of Thrust shaft Steel Identification Mark on Do. 193 HK

Material of Tunnel shafts Steel Identification Marks on Do. 194 HK Material of Screw shafts Steel Identification Marks on Do. 199 HK

Material of Steam Pipes Steel Test pressure 600 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 "MEANDROS" ex "WAR SNIPER" Rpt. "PIONIER" ex "WAR BOMBER" Rpt.

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. 12, 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.

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

It is submitted that this vessel is eligible for

IDENTIFICATION MARKS ON BOILERS

THE RECORD + L.M.C. 12. 19. F.D.

No. 94 HKg. LLOYD'S TEST 360 lbs. W.P. 180 lbs 25-11-19 T.S.M.	No. 95 HKg. LLOYD'S TEST 360 lbs. W.P. 180 lbs 28-11-19 T.S.M.	No. 96 HKg. LLOYD'S TEST 360 lbs. W.P. 180 lbs 25-11-19 T.S.M.
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J.W.D. 26/2/20

The amount of Entry Fee ...	\$ 30.00	When applied for,	
Special Electric Light ...	\$ 460.00	When received,	13/12 19 19
Donkey Boiler Fee ...	\$ 50.00		
Travelling Expenses (if any)	\$ 350.00		21.12.19

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

Committee's Minute

FRI. 27 FEB. 1920

Assigned

+ L.M.C. 12. 19. F.D.

SHIPMENT CERTIFICATE  
WRITTEN



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