

# REPORT ON MACHINERY.

WED No 4967  
14 1920

Received at London Office

Date of writing Report **May 22nd. 1920** When handed in at Local Office

Port of **Hong Kong**

No. in Survey held at **Hong Kong** Date, First Survey **Aug. 3rd. 1919** Last Survey **May 5th. 1920**

Reg. Book. on the **Steel Single Screw Steamer "KERAMIES" ex "WAR CORONET"** (Number of Visits **32**)

Master **Built at Hong Kong** By whom built **Taikoo Dockyard & Eng. Co. Ld.** When built **1920**

Engines made at **Hong Kong** By whom made **Taikoo Dockyard & Engineering Co. Ld.** when made **1920**

Boilers made at **Hong Kong** By whom made **Taikoo Dockyard & Engineering Co. Ld.** when made **1920**

Registered Horse Power Owners **N.E. Ambatielos ex The Shipping Controller** 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**

ENGINES, &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 as per rule **14.7"** Material of screw shaft **Steel**

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 1/4"**

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 **4x4** Dia. of thrust shaft under collars **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** Feed, General **4"** Stroke **24"** Can one be overhauled while the other is at work **Yes**

No. of Donkey Engines **2** Cir. Bal. Sizes of Pump **Gen. 7x9x18** 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. x14x24** In Holds, &c. **Fore hold P&S 3 1/2"; Fore Main hold P&S 3 1/2";**

reserve Bankers **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. pp's 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 stances 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 **above**

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 suction.** 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 **7668**) Manufacturers of Steel **Carnegie Steel Co.**

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 **20/1/20** No. of Certificate **480,481,482**

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 loaded**

Area of each valve **9.62 sq. in.** 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 **Dbl. lap**

long. seams **Tre. butt** Diameter of rivet holes in long. seams **1.5/16"** Pitch of rivets **9 1/2"** Lap 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 **6 1/2"** No. and Description of Furnaces in each boiler **3 Deighton** Material **Steel** Outside diameter **4'2, 3/16"**

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

bottom **8"** 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"**

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 & caulked.** Working pressure by rules **180 lbs.**

Material of stay **Steel** Area at smallest part **2.395 sq. in.** Area supported by each stay **8.90-81** Working pressure by rules **180.9 lbs.** Material of stays **Steel**

Material **Steel** Thickness **1.11/32"** Pitch of stays **21 1/2"** How are stays secured **Nuts & washers** Working pressure by rules **182.2** Material of Front plates at bottom **Steel**

Area at smallest part **8.29 sq. in.** Area supported by each stay **473 sq. in.** Working pressure by rules **187.6 lbs.**

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

Diameter of tube **2 1/2" x 4"** Pitch of tubes **3 1/2" x 4"** Material of tube plates **Steel** Thickness: Front **31/32"** Back **1/2"** Mean pitch of stays **8" x 11 1/2"**

Pitch 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 1 1/2" (2off)** Length as per rule **35.9/16"** Distance apart **10 1/2"** Number and pitch of stays in each **3 - 9 1/2"**

Working pressure by rule **187.6 lbs.** dome: description of joint to shell **None** % of strength of joint **-**

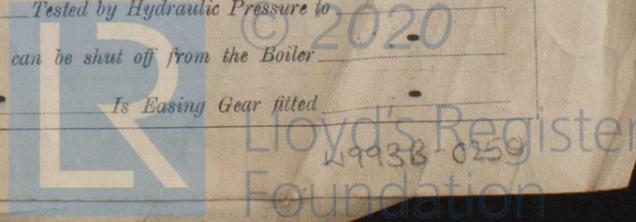
Diameter **-** Thickness of shell plates **-** Material **-** Description of longitudinal joint **-** Diam. of rivet holes **-**

Pitch of rivets **-** Working pressure of shell by rules **-** Crown plates **-** Thickness **-** How stayed **-**

UPERHEATER. Type **-** Date of Approval of Plan **-** Tested by Hydraulic Pressure to **2020**

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.

Taikoo Dockyard & Engineering Co. Ltd. Hong Kong

The foregoing is a correct description,

Handwritten signature: K. Heig

Manufacturer.

Dates of Survey while building: 1919 Aug. 3, 21, Sept. 16, 18 Oct. 3, 11, 16, 23, 30. Dec. 1, 4, 23. 1920. Jan. 6, 12, 15, 20, 22, 28, Feb. 5, 7, 12, 16, 26, 28 Mar. 8, 11, 16, 17 31 Apr. 14, 23 May 5. Feb. 12, 16, 26, Mar. 8, 16, 17, 31, Apr. 14, 23 & May 5.

Dates of Examination of principal parts: Cylinders 23/10/19 Slides 1/12/19 Covers 1/12/19 Pistons 1/12/19 Rods 21/8/19 Connecting rods 21/8/19 Crank shaft 7/2/20 Thrust shaft 16/9/19 Tunnel shafts 1/12/19 Screw shaft 1/12/19 Propeller 1/12/19 Stern tube 1/12/19 Steam pipes tested 11/3/20 Engine and boiler seatings 12/2/20 Engines holding down bolts 26/2/20 Completion of pumping arrangements 16/3/20 Boilers fixed 16/2/20 Engines tried under steam 17/3/20 Completion of fitting sea connections 20/1/20 Stern tube 20/1/20 Screw shaft and propeller 22/1/20 Main boiler safety valves adjusted 16/3/20 Thickness of adjusting washers P.Br. 7/16" C.Br. 7/16" S.Br. 13/32" Material of Crank shaft Steel Identification Mark on Do. 213 HKG. Material of Thrust shaft Steel Identification Mark on Do. 198 HKG. Material of Tunnel shafts Steel Identification Marks on Do. 208 HKG. Material of Screw shafts Steel Identification Marks on Do. 207 HKG. Material of Steam Pipes Steel Test pressure 600 lbs.

Is an installation fitted for burning oil fuel Yes Is the flash point of the oil to be used over 150°F. Yes Have the requirements of Section 49 of the Rules been complied with Yes (EVANGELOS" ex "WAR DRIVER Rpt. 48 (STATHIS" ex "WAR MINER Rpt. 48 (NICOLIS" ex "WAR BUGLER" Rpt. 48 Is this machinery duplicate of a previous case Yes If so, state name of vessel

General Remarks (State quality of workmanship, opinions as to class, &c. The workmanship is good and it recommended)

that the vessel be classed with Lloyd's Machinery Certificate and the record of L.M.C. 5,1920 be made in the Register Book.

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

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

Wallsend-Howden oil fuel pressure system No. 6872 fitted, also horizontal duplex transfer pump 8"x 5" 8", Separate piping arrangements from Double Bottom tanks, distinct from ballast pipes.

IDENTIFICATION MARKS ON BOILERS

Table with 3 columns: No. 97 HKg, No. 98 HKg, No. 99 HKg. Each column contains Lloyd's Test details: 360 lbs., W.P. 180 lbs., 20-1-20, T.S.M.

It is submitted that this vessel is eligible for BBK RECORD. + L.M.C. 5.20. FD Fitted for oil fuel 5.20. F.P. above 150°F.

The amount of Entry Fee ... \$ 30.00 : When applied for Electric Light ... \$ 480.00 : 15/5 1920 Donkey Boiler Fee ... \$ 50.00 : When received Travelling Expenses (if any) \$ 360.00 : 19/5 1920

Engineer Surveyor to Lloyd's Register of Shipping.

Committee's Minute FRI. JUL. 16 1920

FRI. DEC. 10 1920

Assigned

+ L.M.C. 5.20 7D. Fitted for oil fuel 5.20 F.P. above 150°F. FRI. JUL. 15 1921 TUE. 4 OCT. 1921

MACHINERY DEPT. WRITTEN

TUE. 18 DEC. 1923

FRI. MAR. 23 1923 TUE. OCT. 23 1923

Lloyd's Register Foundation

Rpt. 13.

Port of

No. in Reg. Book

Owners N.E.

Yard No.

DESCRIPTION

One 10 K.

with a 5"

Capacity of 1

Where is Dp

Position of M

Positions of

If fuses are

circuits

If vessel is w

Are the fuses

Are all fuses

are perm

Are all switch

Total number

Aft Cir

Midship

Navigation

Cargo

Engines

1 Ma

2

5

If arc lights,

Where are th

DESCRIPTION

Main cable ca

Branch cables

Branch cables

Leads to lamps

Cargo light cab

DESCRIPTION

Main cable

In piping

Joints in cable

Are all the join

positions,

Are there any

How are the c

lipped to