

REPORT ON MACHINERY.

Received at London Office

FRI MAY 7 1920

Date of writing Report Mar. 6th. 1920 When handed in at Local Office

Port of Hong Kong

No. in Survey held at Hong Kong
Reg. Book.

Date, First Survey 26/7/19

Last Survey Feb. 27th. 1920

on the Steel Single Screw Steamer "TRIALOS" ex "WAR SCEPTRE"

(Number of Visits 38)

Gross 5162.83

Master G.M. Frangopoulos Built at Hong Kong

By whom built Hong Kong & Whampoa Dock Co. Ltd. When built 1920

Net 3307.43

Engines made at Hong Kong

By whom made Hong Kong & Whampoa Dock Co. Ltd. when made 1920

Boilers made at Hong Kong

By whom made Hong Kong & Whampoa Dock Co. Ltd. when made 1920

Registered Horse Power

Owners Evangelos E. Ambatielos

Port belonging to Argostoli

ex The Shipping Controller

Nom. Horse Power as per Section 28 516.4

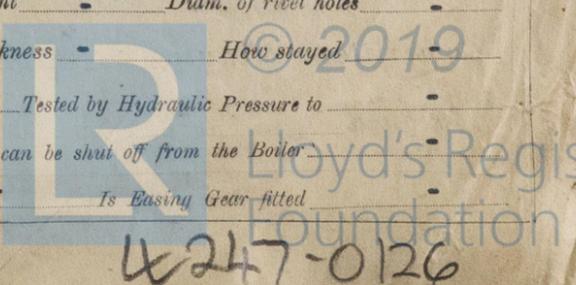
Is Refrigerating Machinery fitted for cargo purposes No

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" 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" as fitted 13.5" Dia. of Crank shaft journals as per rule 14" as fitted 14 1/2" Dia. of Crank pin 14 1/2" Size of Crank webs 48"x Dia. of thrust shaft under
 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 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 Cel. 7x9x18 No. and size of Suctions connected to both Bilge and Donkey pumps
 In Engine Room 2 Port 3 1/2", Star. 3 1/2" Bal. 10 1/2"x14x24" In Holds, &c. Fore Hold P&S 3 1/2"; Fore 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 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 How are they protected Limber Boards
Suctions
 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. J.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 30/1/20 No. of Certificate 483, 484, 485
 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 9.62110 Pressure to which they are adjusted 180 lbs. Are they fitted with easing gear Yes
 loaded
 Smallest distance between boilers or uptakes and bunkers or woodwork 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 Dle. Lap
 long. seams Tre. butt Diameter of rivet holes in long. seams 1,5/16" Pitch of rivets 9 1/8" Gap of plates or width of butt straps 19 1/2"
 Per centages 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
 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" bottom 8" Thickness of plates crown 19/32" Description of longitudinal joint Welded No. of strengthening rings None
 Working pressure of furnace by the rules 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 1/4"x10 1/8" Back 8 1/4"x10 1/8" Top 9 1/4"x10 1/8" 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 S. 99.22 Caulked S. 217 lbs.
 Material Steel Thickness 1, 11/32" Pitch of stays 21 1/2" How are stays secured Nuts & 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 7/8" Material of Lower back plate Steel Thickness 27/32" greatest pitch of stays 13 1/8"x8 1/2" Working pressure of plate by rule 187.6 lbs.
 Diameter of tubes 2 1/2"-4" Pitch of tubes 3 1/2" x 4" Material of tube plates Steel Thickness: Front 31/32" Back 3/4" Mean pitch of stays 8"x 11 1/8"
 Pitch 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 7" (2off) 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. 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. Day
Chief Manager.

Manufacturer.

Dates of Survey while building { During progress of work in shops -- 1919 Jul. 26, Aug. 12, 28, 30 Sept. 19, 30. Oct. 3, 22. Nov. 5, 8, 12, 14, 20, 24, 25, 28, Dec. 3, 8, 11, 16, 17, 18, 30.
During erection on board vessel --- 1920 Jan. 5, 10, 20, 21, 29, 30. Feb. 2, 4, 9, 10, 11, 13, 19, 25, & 27.
Jan. 10, 20, 29, Feb. 4, 9, 19, 25, & 27.
Total No. of visits 38

Is the approved plan of main boiler forwarded herewith No

Dates of Examination of principal parts—Cylinders 25/33/19 Slides 25/11/19 Covers 12/11/19 Pistons 25/11/19 Rods 5/1/20
Connecting rods 18/12/19 Crank shaft 20/11/19 Thrust shaft 20/11/19 Tunnel shafts 20/11/19 Screw shaft 25/11/19 Propeller 28/11/19
Stern tube 24/11/19 Steam pipes tested 10/2/20 Engine and boiler seatings 10/1/20 Engines holding down bolts 29/1/20
Completion of pumping arrangements 19/2/20 Boilers fixed 19/2/20 Engines tried under steam 27/2/20
Completion of fitting sea connections 25/11/19 Stern tube 25/11/19 Screw shaft and propeller 11/12/19
Main boiler safety valves adjusted 25/2/20 Thickness of adjusting washers Pt.Br. S. 3/8 C.Br. P. 5/16 St.Br. P. 1/2 S. 5/16
Material of Crank shaft Steel ✓ Identification Mark on Do. 218 J.E. Material of Thrust shaft Steel ✓ Identification Mark on Do. 204 HKG
Material of Tunnel shafts Steel ✓ Identification Marks on Do. 205 HKG Material of Screw shafts Steel ✓ Identification Marks on Do. 206 HKG.
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 - ("MEANDROS" ex WAR SNIPER Rpt. 4826
"POINIER" ex WAR BOMBER Rpt. 4864
Is this machinery duplicate of a previous case Yes ✓ If so, state name of vessel "AMBATIELOS" ex WAR TROOPER Rpt. 4

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. 2,1920. 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.

IDENTIFICATION MARKS ON BOILERS

No.100 HKG. LLOYD'S TEST 360 lbs. W.P. 180 lbs 30-1-19 T.S.M.	No.101 HKG. LLOYD'S TEST 360 lbs. W.P. 180 lbs 4-2-20 T.S.M.	No.102 HKG. LLOYD'S TEST 360 lbs. W.P. 180 lbs 10-2-20 T.S.M.
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It is submitted that this vessel is eligible for THE RECORD.

+ L.M.C. 2, 20 F.D. 10/5/20

The amount of Entry Fee ... \$ 30.00
Special Electric Light ... \$ 460.00
Donkey Boiler Fee ... \$ 50.00
Travelling Expenses (if any) \$ 350.00

When applied for, 2/3 19 20

When received, 11/3/20

FRI. 22 SEP. 1922
TUE. DEC. 14 1920
FRI. AUG. 10 1923

Engineer Surveyor to Lloyd's Register of Shipping.

Committee's Minute

FRI. MAY. 14 1920

Assigned

+ L.M.C. 2, 20 F.D.

CERTIFICATE WRITTEN

TUE. JUN. 14 1921

FRI. JUN. 30 1922



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