

Rpt. 4.

REPORT ON MACHINERY.

No. 4826

Date of writing Report Aug. 9th. 1919

When handed in at Local Office

Received at London Office

No. in Survey held at Hong Kong

Port of Hong Kong

WED. OCT. 1 - 1919

Reg. Book.

Date, First Survey 21/6/18

Last Survey July 30th. 1919

on the Steel Single Screw Steamer "WAR SNIPER"

(Number of Visits 70)

Master G. S. Baker

Built at Hong Kong

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

Engines made at Hong Kong

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

Boilers made at Hong Kong

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

Registered Horse Power

Owners Socrates H. Iossifoglu
The Shipping Controller

Port belonging to Piraeus

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 78 Dia. of Screw shaft as per rule 14.7" Material of Steel
as fitted 15 1/2" 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 48"x 28"x9"

as fitted 13.5" Dia. of Crank pin 14 1/2" Size of Crank webs 48"x 28"x9" 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 General Sizes of Pumps Gen. D. 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, Starboard 3 1/2 In Holds, &c. Fore Hold P.&S. 3 1/2, Fore Main Hold P.&S. 3 1/2, Aft Main Hold P.&S. 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 of 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 No. Trunk to upper deck. worked from

BOILERS, &c.—(Letter for record -) Manufacturers of Steel U.S.A. Steel Products 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 6/6/19 No. of Certificates 454, 455, 456

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 9.6211 sq. ft. Pressure to which they are adjusted 180 lbs. Are they fitted with easing gear Yes

Smallest distance between boiler uptakes and bunkers 15" Mean dia. of boilers 15.7 1/4" Length 11'6" Material of shell plates Steel

Thickness 1 1/4" Range of tensile strength 28-32 tons Are the shell plates welded or flanged No Descrip. of riveting: cir. seams Double Lap

long. seams Treble butt Diameter of rivet holes in long. seams 1, 5/16" Pitch of rivets 9 1/8" Exp. 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" Thickness of plates crown 19" Description of longitudinal joint Welded No. of strengthening rings None

bottom 8" lbs. bottom 32 Working pressure of furnace by the rules 188.1 Combustion chamber plates: Material Steel Thickness: Sides 23" Back 11" Top 23" Bottom 23"

Pitch of stays to ditto: Sides 9 1/4" x 10 1/8" Back 8 1/2" x 10 1/4" 9 1/4" x 10 1/8" 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 sq. ft. Area supported by each stay 473 sq. ft. Working pressure by rules 180.8 lbs. Material of stays Steel

Material Steel Thickness 1 11/32" Pitch of stays 21 1/4" How are stays secured Nuts & Washers Working pressure by rules 182.2 lbs. Material of Front plates at bottom Steel

Area at smallest part 8.29 sq. ft. Area supported by each stay 473 sq. ft. Working pressure by rules 182.2 lbs. Material of Front plates at bottom Steel

Thickness 3/8" Material of Lower back plate Steel Thickness 3/32" Greatest pitch of stays 13 1/2" x 8 1/2" Working pressure of plate by rule 187.6 lbs

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

Pitch across wide water spaces 13 1/2" Working pressures by rule Space 181 lbs. Orders to Chamber tops: Material Steel Depth and

thickness of girder at centre 10" x 7" (2 off) 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 rule 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 -

UPERHEATER. 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 Jun. 21. Jul. 26. Aug. 22. Sept. 10, 23, 25, 30 Oct. 2, 8, 11, 14, 17, 18, 28, 30 Nov. 1, 4, 6, 7, 9, 16, 18, 25, 28. Dec. 2, 4, 7, 9, 10, 12, 16, 21, 23, 28, 30.
During erection on board vessel - - - 1919 Jan. 4, 7, 9, 23, 25, 27. Feb. 8, 12, 17, 20. Mar. 6, 10, 12, 19, 22, 26, May 26, 29. Jun. 4, 6, 11, 12, 18, 24, 27 July 3, and 12th.
Total No. of visits 70
Is the approved plan of main boiler forwarded herewith Yes

Dates of Examination of principal parts—Cylinders 6/3/19 Slides 23/1/19 Covers 6/3/19 Pistons 25/1/19 Rods 17/10/13
Connecting rods 10/12/18 Crank shaft 2/10/18 Thrust shaft 24/6/19 Tunnel shafts 24/6/19 Screw shaft 24/6/19 Propeller 8/2/19
Stern tube 27/1/19 Steam pipes tested 12/7/19 Engine and boiler seating 26/5/19 Engines holding down bolts 26/5/19
Completion of pumping arrangements 15/7/19 Boilers fixed 30/6/19 Engines tried under steam 17/7/19
Completion of fitting sea connections 26/3/19 Stern tube 26/3/19 Screw shaft and propeller P. 25/64 P. 25/64 S. 26/64
Main boiler safety valves adjusted 17/7/19 Thickness of adjusting washers P. 718 S. 25/64 S. 27/64 S. 26/64
Material of Crank shaft Steel Identification Mark on Do. LLOYD'S TEST J. McK. Material of Thrust shaft Steel Identification Mark on Do. 176 HKg.
Material of Tunnel shafts Steel Identification Marks on Do. 178 HKg. Material of Screw shafts Steel Identification Marks on Do. 177 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

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. 7, 1919 be made in the Register Book.

Since this vessel was completed she has been sold to Greek Owner Mr. Socrates H. Iossifoglu of Athen

IDENTIFICATION MARKS ON BOILERS

No. 71 HKg.
LLOYD'S TEST
360 lbs.
6-6-19
T.S.M.

No. 72 HKg.
LLOYD'S TEST
360 lbs.
6-6-19
T.S.M.

No. 73 HKg.
LLOYD'S TEST
360 lbs.
6-6-19
T.S.M.

It is submitted that
this vessel is eligible for
THE RECORD + L.M.C. 7, 19, F.D.

J. W. D.
2/10/19.

The amount of Entry Fee ... \$ 40.00 : When applied for,
Electric Light ... \$ 613.00 : 4/8 1919
Donkey Boiler Fee ... \$ 50.00 :
Travelling Expenses (if any) \$ 260.00 : When received,
19

Committee's Minute FRI. 10 OCT. 1919

Assigned

+ L.M.C. 7.19

F.D.

MACHINERY CERTIFICATE
WRITTEN.



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