

Rpt. 4.

REPORT ON MACHINERY

No. 4802

TUE. 5-AUG. 1919

Received at London Office

Date of writing Report June 7th. 1919 When handed in at Local Office

Port of Hong Kong

No. in Survey held at Hong Kong

Date, First Survey Jan. 23rd. 1918 Last Survey May 30th. 1919

Reg. Book.

(Number of Visits)

on the Steel Single Screw Steamer "WAR DRUMMER"

Gross 3102.19

Net 1921.28

Master Frank Adcock

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

Shipping Controller

Port belonging to Hong Kong

Nom. Horse Power as per Section 28

259

Is Refrigerating Machinery fitted for cargo purposes

No

Is Electric Light fitted

Yes

ENGINES, &c.—Description of Engines Triple Expansion

No. of Cylinders

3

No. of Cranks

3

Dia. of Cylinders 23", 38", 61"

Length of Stroke 42"

Revs. per minute

75

Dia. of Screw shaft

as per rule 12.98

Material of Ingot 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

Is 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

Liner fits tightly

If liners are fitted, is the shaft lapped or protected between the liners

Length of stern bush

4'-6"

Dia. of Tunnel shaft

as per rule 11.46

Dia. of Crank shaft journals

as per rule 12.03

Dia. of Crank pin

13

Size of Crank webs

2'0"

Dia. of thrust shaft under

x 8 1/4" thick

Collars

12.5

Dia. of screw

16'0"

Pitch of Screw

16'0"

No. of Blades

4

State whether moveable

No

Total surface

70 sq. ft.

No. of Feed pumps

2

Diameter of ditto

3 1/2

Stroke

23

Can one be overhauled while the other is at work

Yes

No. of Bilge pumps

2

Diameter of ditto

3 1/2

Stroke

23

Can one be overhauled while the other is at work

Yes

No. of Donkey Engines

6

Sizes of Pumps

Cent. 12"

Weirs 2- 7 1/2, 5 1/2, 15

No. and size of Suctions connected to both Bilge and Donkey pumps

(2 in Fore Hold 3" 2 in Aft Main Hold 3"

In Engine Room 2 to Bilge Range 3"

Bal. 10 1/2, 15, 18

In Holds, &c.

(2 in Main Hold 3" 1 in Tunnel 3"

Separate to Donkey Pump

3 1/2"

(G.S. 6x7x7

(2 in Aft Hold 3"

Aux. Cond. 6x7x7

Is a separate Donkey Suction fitted in Engine room & size

No. of Bilge Injections

1 sizes

7"

Connected to condenser, or to circulating pump

Pump

Is a separate Donkey Suction fitted in Engine room & size

Yes, Two 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

(Main Discharge below,

Are the Discharge Pipes above or below the deep water line

others above

Are they fixed sufficiently high on the ship's side to be seen without lifting the stokehold plates

Yes

Are the Blow Off Cocks fitted with a spigot and brass covering plate

Yes

Are the Discharge Pipes above or below the deep water line

others 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

Are the Discharge Pipes above or below the deep water line

others above

What pipes are carried through the bunkers Bilge suction from fore hold How are they protected

Wood covering

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

OILERS, &c.—(Letter for record)

1/11/17

Manufacturers of Steel

Hallside

Total Heating Surface of Boilers

3946

Is Forced Draft fitted

No

No. and Description of Boilers

Two Cylindrical Marine Type

Working Pressure

180 lbs.

Tested by hydraulic pressure to

360 lbs.

Date of test

5/4/19

No. of Certificate

Can each boiler be worked separately

Yes

Area of fire grate in each boiler

62 sq. ft

No. and Description of Safety Valves to

One 3" double

Are they fitted with easing gear

Yes

Each boiler

spring loaded

Area of each valve

14.1

Pressure to which they are adjusted

180

Are they fitted with easing gear

Yes

Smallest distance between boilers or uptakes and bunkers or woodwork

12"

Mean dia. of boilers

15'-0"

Length

10'-6"

Material of shell plates

Steel

Thickness

1 13/32

Range of tensile strength

29-32 tons

Are the shell plates welded or flanged

No

Descrip. of riveting: cir. seams

lap

Long. seams

T.R. Double

Diameter of rivet holes in long. seams

1 7/8

Pitch of rivets

9 1/2

Lap of plates or width of butt straps

1'-9 1/2"

Per centages of strength of longitudinal joint

rivets 88

Working pressure of shell by rules

213 lbs.

Size of manhole in shell

16" x 12"

Size of compensating ring

1, 13/32"

No. and Description of Furnaces in each boiler

3 Morison

Material

Steel

Outside diameter

4'-0"

Length of plain part

top

Thickness of plates

crown

Description of longitudinal joint

Welded

No. of strengthening rings

-

Working pressure of furnace by the rules

209.8

Combustion chamber plates: Material

Steel

Thickness: Sides

11/16

Back

Top

11/16

Bottom

Pitch of stays to ditto: Sides

9"x 7"

Back

7 1/2"x 7 1/2"

Top

8 3/8"x 8 1/2"

If stays are fitted with nuts or riveted heads

Nuts

Working pressure by rules

S. 188

Material of stays

Steel

Area at smallest part

B. 1.48

Area supported by each stay

B. 58.5

Working pressure by rules

T. 222

End plates in steam space:

-

Material

Steel

Thickness

1"

Pitch of stays

15"x 17"

How are stays secured

Nuts &

Working pressure by rules

199

Area at smallest part

6.10

Area supported by each stay

255

Working pressure by rules

248

Material of Front plates at bottom

Steel

Thickness

7/8

Material of Lower back plate

Steel

Thickness

3/4

Greatest pitch of stays

12 1/2" x 7 1/2"

Working pressure of plate by rules

180

Diameter of tubes

3 1/4"

Pitch of tubes

4 1/2"

Material of tube plates

Steel

Thickness: Front

15/16"

Back

27/32"

Pitch across wide water spaces

13 1/2"

Working pressures by rules

Nest 248

Girders to Chamber tops: Material

Steel

Depth and

-

Thickness of girder at centre

11" x 1 1/2"

Length as per rule

2'-9 1/2"

Distance apart

8 1/2"

Number and pitch of stays in each

Three 8 3/8"

Working pressure by rules

280

Steam dome: description of joint to shell

-

%

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

-

Is Easing Gear fitted

-

Diameter of Safety Valve

-

Pressure to which each is adjusted

-

-

-

-

IS A DONKEY BOILER FITTED? Yes

If so, is a report now forwarded? No

SPARE GEAR. State the articles supplied:— Supplied as per rule and additional spare gear as per attached list.

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

R. M. Dym

Manufacturer.

Chief Manager

Dates of Survey while building	{	During progress of work in shops --	1918 Jan. 23, Mar. 15, Apr. 9 May 18 Jun. 1, 5, 19, 21 Jul. 12, 24, 25, 26, 29 Aug. 2, 6, 7, 9, 19, 28 Sept. 4, Oct. 14, 30, Nov. 1, 2, 7, 11, 15, 26, 28, 30 Dec. 12, 13, 16, 23, 28, 1919 Jan. 4, 6, 9, 10, 11, 18 Mar. 10, Apr. 3, 5, 1919 Sept. 25, Oct. 4 16, 18, 28 Nov. 20, Dec. 2, 11, 17, 30 1919 Jan. 7, 29 Feb. 10, 20, May, 5, 14, 26, 27, 28, 30.
		During erection on board vessel --	
		Total No. of visits	64
		Is the approved plan of main boilers forwarded herewith	Yes

" " " donkey " " " No
 Dates of Examination of principal parts—Cylinders 7/8/18 Slides 2/10/18 Covers 7/8/18 Pistons 2/10/18 Rods 4/9/18
 Connecting rods 4/9/18 Crank shaft 28/8/18 Thrust shaft 28/8/18 Tunnel shafts 28/8/18 Screw shaft 28/8/18 Propeller 6/8/18
 Stern tube 6/8/18 Steam pipes tested 16/5/19 Engine and boiler seatings 18/11/18 Engines holding down bolts 30/12/18
 Completion of pumping arrangements 15/5/19 Boilers fixed 1/5/19 Engines tried under steam 30/5/19
 Completion of fitting sea connections 9/8/18 Stern tube 9/8/18 Screw shaft and propeller 9/8/18
 Main boiler safety valves adjusted 28/5/19 Thickness of adjusting washers Pt. Br. P. 3/16" S. 3/8" St. Br. P. 1/4" S. 3/8"
 Material of Crank shaft Steel Identification Mark on Do. 137 HKg. Material of Thrust shaft Steel Identification Mark on Do. 138 HKg.
 Material of Tunnel shafts Steel Identification Marks on Do. 139 HKg. Material of Screw shafts Steel Identification Marks on Do. 140 HKg.
 Material of Steam Pipes Solid drawn copper Test pressure 400 lbs.
 Is an installation fitted for burning oil fuel - 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. 5,1919 be made in the Register Book.

Donkey boiler made by The Freeman Manufacturing Co. Racine, Wis. U.S.A. Cert. No. 53 installed on this vessel.

Safety valves of donkey boiler adjusted to blow at 105 lbs. satisfactorily. Thickness of washers Port 9/16", Starboard 9/16". Fitted with easing gear. Safety valve one double spring loaded, 2 1/2" Area 7.95 sq. each.

IDENTIFICATION MARKS ON BOILERS

DONKEY BOILER

No. 68 HKg.
LLOYD'S TEST
360 lbs.
5-4-19
J.L.

No. 69 HKg.
LLOYD'S TEST
360 lbs.
5-4-19
J.L.

It is submitted that this vessel is eligible for THE RECORD + LMC 5.19

No. 53
LLOYD'S TEST
200 lbs.
24-10-18
W. L.

The amount of Entry Fee ...	\$ 27.00	When applied for,
Special ...	\$ 439.00	2/6 19 19
Donkey Boiler Fee ...	\$ 50.00	When received,
Electric Light ...	\$ 200.00	4/6 19 19
Travelling Expenses (if any)	\$ 200.00	

Committee's Minute

TUE. AUG. 12. 1919

Assigned

+ Lmc 5. 19

W. Morrison for self & Jno. Lamb
Engineer Surveyor to Lloyd's Register of Shipping.



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