

THURSDAY, 1919

Date of writing Report

10

When handed in at Local Office

1919 Port of

No. in Survey held at

Jarrow &amp; Hebburn

Date, First Survey

10<sup>th</sup> May 1918

Last Survey

31<sup>st</sup> July 1919

Reg. Book.

211 on the

S. S. War Begum

(Number of Visits)

7

Gross 5578

Net 3428

Master

Built at

Hebburn

By whom built

Palmer &amp; Co. Ltd

No 890

When built

1919

Engines made at

Jarrow

By whom made

Palmer &amp; Co. Ltd

No 893

When made

1919

Boilers made at

Jarrow

By whom made

Palmer &amp; Co. Ltd

when made

1919

Registered Horse Power

Owners

The Shipping Controller

Port belonging to

British

Nom. Horse Power as per Section 28

517

Is Refrigerating Machinery fitted for cargo purposes

No

Is Electric Light fitted

Yes

## ENGINES, &amp;c.—Description of Engines

Triple Expansion

No. of Cylinders

3

No. of Cranks

3

Dia. of Cylinders

27" 44" 73"

Length of Stroke

48

Revs. per minute

77

Dia. of Screw shaft

as per rule 14-66

Material of

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

Yes

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

Yes

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 14-1/2

Dia. of Crank pin

14 1/2"

Size of Crank web

22 1/2" x 9"

Dia. of thrust shaft under

collars

14 3/4"

Dia. of screw

17-6"

Pitch of Screw

16-6"

No. of Blades

4

State whether moveable

No

Total surface

98.20"

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

3

Sizes of Pumps

10 1/2" 14" 24"

9 1/2" 7 1/2" 18"

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

In Engine Room

Four, 3 1/2" diameter

In Holds, &amp;c

Two 3 1/2" in fore hold, Two 2 1/2"

in pump room, Two 2 1/2" to after flat and one 2 1/2" in tunnel well.

No. of Bilge Injections

1

sizes

8"

Connected to condenser, or to circulating pump

Pump

Is a separate Donkey Suction fitted in Engine room &amp; 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

Yes

Are all connections with the sea direct on the skin of the ship

on chip side

Are they Valves or Cocks

Both

Are they fired 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

main discharge all 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

How are they protected

What pipes are carried through the bunkers

None

How are they protected

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

Dates of examination of completion of fitting of Sea Connections

2/6, 3/6, 4/6/19

Stern Tube

3/6, 4/6/19

Screw shaft and Propeller

3/6, 3/6, 4/6/19

Is the Screw Shaft Tunnel watertight

Yes

Is it fitted with a watertight door

No

Entered from deck

## BOILERS, &amp;c.—(Letter for record)

Manufacturers of Steel

J. Spencer &amp; Sons Ltd

Total Heating Surface of Boilers

7668 sq ft

Is Forced Draft fitted

Yes

No. and Description of Boilers

3

Single Ended

Working Pressure

180 lb per sq in

Tested by hydraulic pressure to

360 lb

Date of test

17/3/19, 10/4/19, 16/4/19

No. of Certificate

9208, 9215, 9219

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

No, direct spring

Area of each valve

9.62 sq in

Pressure to which they are adjusted

185 lb

Are they fitted with easing gear

Yes

Smallest distance between boilers or uptakes and bunkers or woodwork

30"

dia. of boilers

15-6"

Length

11-6"

Material of shell plates

Steel

Thickness

1 1/4"

Range of tensile strength

28/32 ton

Are the shell plates welded or flanged

No

Descrip. of riveting: cir. seams

2 R Lap

long. seams

5 joints

Diameter of rivet holes in long. seams

1 5/16"

Pitch of rivets

9/8"

Lap of plates on width of butt straps

19/2"

Per centages of strength of longitudinal joint

rivets 88.3

plate 85.6

Working pressure of shell by rules

182 lb

Size of manhole in end

16" x 12"

Size of compensating ring

Flange

No. and Description of Furnaces in each boiler

3

Brighton

Material

Steel

Outside diameter

50 3/16"

Length of plain part

top

bottom

Thickness of plates

19/32"

Description of longitudinal joint

Welded

No. of strengthening rings

Yes

Working pressure of furnace by the rules

188

Combustion chamber plates: Material

Steel

Thickness: Sides

23/32"

Back

11/16"

Top

23/32"

Bottom

23/32"

Pitch of stays to ditto: Sides

11 1/32"

8/8"

10 1/4"

8 1/2"

Top

10 1/8"

9 1/4"

stays are fitted with nuts or riveted heads

Nuts inside

Working pressure by rules

180

Material of stays

Steel

Diameter at smallest part

2 1/4"

Area supported by each stay

98 sq in

Working pressure by rules

219

End plates in steam space:

Material

Steel

Thickness

1 1/32"

Pitch of stays

20 1/2" x 21 1/2"

How are stays secured

Double nuts

Material

Steel

Thickness

1 1/32"

Pitch of stays

20 1/2" x 21 1/2"

Area supported by each stay

446 sq in

Working pressure by rules

199

Material of Front plates at bottom

Steel

Thickness

31/32"

Material of Lower back plate

Steel

Thickness

27/32"

Greatest pitch of stays

13 1/8" x 8 3/4"

Working pressure of plate by rules

187

Diameter of tubes

2 3/4"

Pitch of tubes

4" x 3 7/8"

Material of tube plates

Steel

Thickness: Front

31/32"

Back

3/4"

Mean pitch of stays

9 7/8"

Pitch across wide water spaces

13 7/8"

Working pressures by rules

181 lb

Girders to Chamber tops: Material

Steel

Depth and

thickness of girder at centre

10" x 1 1/4"

Length as per rule

35 1/16"

Distance apart

10 1/8"

Number and pitch of stays in each

Three, 9 1/4"

Working pressure by rules

187 lb

Superheater or Steam chest; how connected to boiler

None

Can the superheater be shut off and the boiler worked

separately

Diameter

Length

Thickness of shell plates

Material

Description of longitudinal joint

Diam. of rivet

holes

Pitch of rivets

Working pressure of shell by rules

Diameter



No.

*The foregoing is a correct description,*

J. Kemp

*Manufacturer.*

[illegible]

*Is the approved plan of main boiler forwarded herewith*

Standard  
No B  
None

*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.

76

*Is this machinery duplicate of a previous case.*

If so, state name of vessel

War History. No 71416

## General Remarks

(State quality of workmanship, opinions as to class, &c.)

The machinery of this vessel

has been built under special survey, the materials and workmanship are of good quality, it has been securely fitted on board and satisfactorily tested under steam.

In our opinion the machinery of this vessel is non eligible  
for record. ∴ L M C 7-19 (in red) in register book.

1st forging, casting & pipe reports & invoices of steel ~~are~~ forwarded.

It is submitted that  
this vessel is eligible for

THE RECORD. + LMC 7. 19. F.D.

Filted for oil fuel 7.19 F above 150°F

The amount of Entry Fee	...	£	:	:	When applied for,
Special	...	£ 146	:	11	20 AUG 1919
Doukey Boiler Fee	...	£	:	:	When received,
Travelling Expenses (if any)	£	:	:	:	30/9/1919

George Murdoch & W. Laidlaw.  
Engineer Surveyors to Lloyd's Register of British & Foreign Shipping.

Committee's Minute TUE. AUG. 26. 19

*Assigned*

+ June 7. 19

Settled for oil fuel 7.19 F.P. above 150' F.

1/10  
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 NOTED



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Foundation