

REPORT ON MACHINERY

No. 10209

WED. 2 OCT. 1918

Received at London Office

of writing Report

When handed in at Local Office

26/9/18 Port of Middlesbrough

in Survey held at

Stockton-on-Tees

Date, First Survey 22nd Feb/18 Last Survey 18th Sept 1918

Book.

S. S. "WAR ISLAND" (Standard "C")

(Number of Visits (S.S.N. 200)

Gross 3143

on the

S. S. "WAR ISLAND"

By whom built Messrs Craig Taylor & Co

When built 1918

ster Williams

Built at Stockton

By whom made Messrs Blair & Co Ltd (N^o 1890)

when made 1918

ines made at

Stockton

By whom made

Messrs Blair & Co Ltd

when made 1918

ilers made at

Stockton

By whom made

Messrs Blair & Co Ltd

when made 1918

gistered Horse Power

Owners

The Shipping Controller

Port belonging to

London

m. Horse Power as per Section 28

359

Is Refrigerating Machinery fitted for cargo purposes

no

Is Electric Light fitted

yes

GINES, &c.—Description of Engines

Tri-compound

No. of Cylinders

3

No. of Cranks

3

a. of Cylinders

25-41-68

Length of Stroke

45

Revs. per minute

78

Dia. of Screw shaft

as per rule 12.58

as fitted 14.2

Material of screw shaft

By Steel

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

the propeller boss

yes

If the liner is in more than one length are the joints burned in

in m

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

tight fit

If two

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

Length of stern bush

5'-0 1/2"

ia. of Tunnel shaft

as per rule 12.42

as fitted 12.2

Dia. of Crank shaft journals

as per rule 12.04

as fitted 13.4

Dia. of Crank pin

13 1/4"

llars

13 1/4"

Dia. of screw

16'-0"

Pitch of Screw

16'-3"

No. of Blades

4

State whether moveable

no

Total surface

75 sq

To. of Feed pumps

2

Diameter of ditto

3 1/2"

Stroke

24

Can one be overhauled while the other is at work

yes

To. of Bilge pumps

2

Diameter of ditto

3 1/2"

Stroke

24

Can one be overhauled while the other is at work

yes

To. of Donkey Engines

3

Sizes of Pumps

14 x 18 x 20

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

2 @ 7 x 18 x 20

In Holds, &c.

2 @ 3"

each hold except aftermost where

n Engine Room

4 @ 3"

2 @ 2 1/2" + one @ 3 1/2" Tunnel will run @ 2 1/2"

Vo. of Bilge Injections

1

sizes

13"

Connected to

centrifugal circulating pump

yes

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

main below

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

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

What pipes are carried through the bunkers

Suctions to forward holds

How are they protected

wood ceiling

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

18.6.18

of Stern Tube

18.6.18

Screw shaft and Propeller

29.7.18

Is the Screw Shaft Tunnel watertight

see hull Rpt

Is it fitted with a watertight door

no

worked from Trunk at each end

BOILERS, &c.—(Letter for record (S))

Manufacturers of Steel

Messrs J. H. & Sons Ltd.

Total Heating Surface of Boilers

5841

Is Forced Draft fitted

no

No. and Description of Boilers

3 single ended

Working Pressure

180

Tested by hydraulic pressure to

360

Date of test

27.8.18

No. of Certificate

5921

Can each boiler be worked separately

yes

Area of fire grate in each boiler

51.7 sq

No. and Description of Safety Valves to

each boiler

2 direct spring

Area of each valve

8.29 sq

Pressure to which they are adjusted

185

Are they fitted with easing gear

yes

Smallest distance between boilers on uptakes and bunkers on woodwork

5'-0"

External

dia. of boilers

14'-0"

Length

11'-8 1/2"

Material of shell plates

steel

Thickness

1/8"

Range of tensile strength

28 1/2 - 33

Are the shell plates welded or flanged

no

Descrip. of riveting: cir. seams

2 R. lap

long. seams

2 B - 3 Riv

Diameter of rivet holes in long. seams

1 1/2"

Pitch of rivets

8 1/2"

Lap of plates or

width of butt straps

18" x 7/8"

1 1/2 in

Per centages of strength of longitudinal joint

plate

86.3

Working pressure of shell by rules

187

Size of manhole in

end

16" x 12"

Size of compensating ring

flanged

No. and Description of Furnaces in each boiler

3 Brighton

Material

steel

Outside diameter

43"

Length of plain part

top

bottom

Thickness of plates

17"

Description of longitudinal joint

weld

No. of strengthening rings

17

Back

3/4"

Top

1/2"

Bottom

Working pressure of furnace by the rules

190

Combustion chamber plates: Material

steel

Thickness: Sides

1/2"

Back

3/4"

Top

1/2"

Bottom

Pitch of stays to ditto: Sides

9 3/8" x 9

Back

10 1/2" x 9

Top

9 3/8" x 9

If stays are fitted with nuts or riveted heads

nuts

Working pressure by rules

213

End plates in steam space:

Material of stays

steel

Diameter at smallest part

2.31

Area supported by each stay

84.3

Working pressure by rules

213

Material of stays

steel

Material

steel

Thickness

1 1/2"

Pitch of stays

23 3/4" x 19 1/2"

IS A DONKEY BOILER FITTED? no

If so, is a report now forwarded? ☒

SPARE GEAR. State the articles supplied:— Two each of Main bearing, con. rod top end & bottom end bolts & nuts; one set (6) of coupling bolts & nuts; one set each of feed & bilge pump valves; assorted bolts and nuts: lion of various sizes and minor gear as per revised list attached to signed specification

The foregoing is a correct description,

FOR BLAIR & CO., LIMITED

Geo. Mitchell

Manufacturer.

Dates of Survey while building { During progress of work in shops -- 1918. Feb 22. 25. Mar 2. 7. 8. 11. 18. 20. 22. 25. Apr 2. 4. 5. 8. 10. 11. 12. 15. 17. 19. 22. 24. 26. 29. 30. May 3. 6. 8. 11. 15. 17. 22. 23. 24. 27. 29. 30. 31. June 4. 5. 7. 11. 12. 13. 14. 17. 18. 19. 20. 21. 22. 24. 26. 27. 28. July 5. 8. 11. 15. 17. 28. 28. 29. Aug 1. 2. 6. 7. 8. 12. 14. 15. 16. 27. 29. Sep 2. 3. 4. 6. 10. 11. 13. 16. 18. Total No. of visits 83.

Is the approved plan of main boiler forwarded herewith yes
Plan Return for guidance in future cases

Dates of Examination of principal parts—Cylinders 11.5.18 Slides 15.5.18 Covers 15.5.18 Pistons 31.5.18 Rods 31.5.18 Connecting rods 8.7.18 Crank shaft 17.5.18 Thrust shaft 8.5.18 Tunnel shafts 17.5.18 Screw shaft 11.7.18 Propeller 11.7.18 Stern tube 11.6.18 Steam pipes tested 22/4/18. Engine and boiler seatings 18.6.18 Engines holding down bolts 12.8.18 Completion of pumping arrangements 13.9.18 Boilers fixed 6.9.18 Engines tried under steam 6.9.18 Main boiler safety valves adjusted 6.9.18 Thickness of adjusting washers P-3/8 B P-5/8 B C-3/8 B S-5/16 B S-5/16 B Material of Crank shaft Ing Steel Identification Mark on Do. 7138 Material of Thrust shaft Ing Steel Identification Mark on Do. 7138 Material of Tunnel shafts Ing Steel Identification Marks on Do. 7138 Material of Screw shafts Ing Steel Identification Marks on Do. 7138 Material of Steam Pipes Lap welded steel Test pressure 540

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 Standard "C"

General Remarks (State quality of workmanship, opinions as to class, &c. The machinery of this vessel has been built under special survey in accordance with the Rules, the specification as amended. The materials and workmanship are sound and good. On completion the engines, boilers and auxiliaries were examined under full working conditions and found satisfactory.

The machinery is now in a good and efficient conditions and renders the vessel eligible in my opinion to have the notation of L.M.C. 9.18 in the Register Book

This vessel is fitted with Electric Light and wireless

It is submitted that this vessel is eligible for THE RECORD. + L.M.C. 9.18.

H. F. 10-15
G. R. R.

The amount of Entry Fee £

Special ...

Donkey Boiler Fee ...

Travelling Expenses (if any) £

When applied for,

When received,

Committee's Minute

Assigned

FRI. 4-OCT. 1918

+ L.M.C. 9.18

MACHINERY CERTIFICATE
WRITTEN



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Foundation